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What is the STAR Economics and Decision Sciences Program?

The STAR Economics and Decision Sciences (EDS) research program supports research by external social scientists that environmental decision-makers can use in real-world situations. The EDS program assists EPA in estimating costs and benefits of proposed actions, identifies costs savings of non-regulatory approaches, and assists in optimizing the use of its enforcement compliance resources. Behavioral research is important to developing effective solutions to environmental problems because the causes and remedies are behavioral in nature. Better understanding of polluter motivations and environmental values can improve the human and ecosystem health, decrease pollution control costs, and improve the efficiency and effectiveness of environmental policies.

From 1995 through 2001, NCER has partnered with the National Science Foundation (NSF) and worked independently to issue 12 RFAs. Together with NSF, EPA has provided more than \$17 million to fund 108 research projects.

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How does NCER determine what research is needed?



NCER's Economics and Decision Sciences Research is being performed under:

- GPRA Goal 8: Provide a sound scientific basis to improve understanding of environmental risk and develop and implement innovative approaches for current and future environmental problems
- Objective 3: Emerging Risk Issues. By 2008, establish capability and mechanisms to anticipate or identify environmental or other changes that may portend future risk, integrate futures planning into ongoing programs and promote coordinated preparation for, and

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NCER works with clients in EPA and elsewhere to identify the scientific questions that are of the highest interest, focus targeted competitive solicitations or requests for applications (RFAs) - on these topics, select the best and most useful peer-reviewed proposals, and disseminate the research results to a variety of audiences. Current EDS research results are helping environmental managers at all levels of government to estimate the costs and benefits of proposed actions, identify the cost-effectiveness of alternative regulatory and non-regulatory approaches, and optimize the use of enforcement and compliance resources.

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What are NCER's EDS Research goals?

The EDS program focuses research on topics where behavior has the greatest impact on environmental outcomes, and where our scientific understanding is in greatest need of improvement. NCER's EDS program has four specific long-term research goals:

1. Identify motivations for environmental behavior and decisions for different entities.
2. Develop reliable estimates of how people value environmental and health benefits with emphasis on children's health.
3. Identify the behavioral responses of different entities to various government interventions, including regulations, enforcement, and technical assistance.
4. Identify the socioeconomic causes and consequences of the potentially most significant long-term environmental issues and the tools for predicting and addressing these.

To answer these questions, we have four on-going RFAs including:

1. Valuation of Ecological and Health Benefits;
2. Corporate Environmental Behavior and the Effectiveness of Government Interventions,
3. Market Mechanisms and Incentives; and,
4. The Value and Use of Environmental Information.

response to change

- Sub-objective 001: Pollution Prevention and New Technology - Enhance the Environmental Protection Agency's capabilities to anticipate, understand, and respond to future environmental developments; conduct research in areas that combine human health and ecological considerations; and to conduct research in social science, environmental decision making, economic valuation, and estimation of environmental costs, risk, and benefits.

Specific focus areas within these RFAs change from year to year in response to newly identified needs and knowledge added by our existing research.

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What are some basic questions that we are trying to answer through our solicitations?

1. What and how significant are the different motivations for environmental behavior (e.g., financial, reputation, ethics, etc) for different types of entities?
2. What are the likely behavioral responses of different entities to various government interventions, including regulations, enforcement, technical assistance and incentives?
3. How can programs be designed to take advantage of predictable behavioral responses to deliver cost-effective environmental protection through market forces?
4. What are the theoretical and methodological issues in developing reliable estimates of how people value environmental and health benefits as individuals or in groups?
5. What are the long term socio-economic trends and events that will have significant environmental effects; how can these effects be predicted and addressed?

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What is the current focus of our research?

NCER's current 2002 socio-economics program includes four solicitations:

Corporate Environmental Behavior

This category of solicitations covers the motivators of regulated entities' environmental behavior and performance, and assesses the influence of various governmental interventions.



Questions we have tried to answer through past *Corporate Environmental Behavior* solicitations include:

1. What determines environmental behavior or performance and compliance with environmental laws and regulations?
2. What are the relationships between environmental compliance behavior and performance, and facility or business characteristics such as management structure, size, profitability, corporate policies, etc.?

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Market Mechanisms and Incentives

These solicitations generally cover market-based mechanisms and other incentives for environmental management.

<http://es.epa.gov/ncer/rfa/>

Decision Making and Valuation for Environmental Policy (with the National Science Foundation)

<http://es.epa.gov/ncer/rfa/02dmvpe.html>

This RFP Solicits proposals in three focus areas:

- ecosystems valuation, including methods improvements as well as ways to incorporate non-monetizable or non-quantifiable ecological information into environmental policy decisions;
- how to link individual with group or community valuation of environmental amenities; and community environmental decision-making in general;
- research on the costs and benefits, use and affects of environmental information in environmental decision-making

Human Health Valuation

<http://es.epa.gov/ncer/rfa/02childrenval.html>

This RFP is designed to promote research to enhance economic valuation of reducing environmental risks to children's health - including the willingness to pay (WTP) for reductions in (1) morbidity and (2) mortality risks to children's health. Health end points that may be addressed include: (a) childhood cancers, (b) incidence of food- or water-borne pathogenic illnesses, (c) developmental disorders; (d) respiratory illnesses; and (e) diseases, both fatal and non-fatal, that may manifest in adulthood as a result of childhood exposure to toxins or pathogens. Attributes that might be addressed may include intelligence, fertility, functionality, mobility, and life expectancy. This research is expected to emphasize development of empirical research and data.

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What were the areas of emphasis in NCER's past socioeconomic research solicitations?

1995

Valuation for Environmental Policy

This competition



More specific questions that EPA has tried to answer with the Corporate Environmental Behavior solicitations include:

- What motivates companies to monitor, dissuade and punish poor environmental performance by their own facilities or non-compliant behavior by their employees?
- What motivates firms to attain environmental performance beyond that required by regulation?
- What organizational characteristics (e.g., centralized or decentralized environmental compliance responsibility) foster improved environmental performance and compliance?
- What (non-governmental) financial incentives exist to encourage compliance? Does pollution prevention really pay? How and in what circumstances do environmental compliance and performance contribute to the bottom line?



<http://es.epa.gov/ncer/rfa/>

emphasized research on methods of valuation of non-market environmental goods and services, especially ecosystems, using contingent valuation and other stated preference methods;

1996

Decision Making and Valuation for Environmental Policy

This competition was broadened to include valuation of non-cancer health benefits, and estimates of costs of alternative environmental policies including economic incentives;

1997, 1998, and 1999

Decision-Making and Valuation for Environmental Policy

These competitions emphasized research in five areas (1) cost estimation; (2) benefit estimation; (3) identification of the relationship between the economy and environmental quality; (4) ecosystem valuation; and (5) decision-making.

2000

Valuation of Children's Health Effects

This competition focused on valuation of children's health effects in two areas (1) parental and societal willingness to pay (WTP) for reductions in risks to children's health, and (2) improved transfer of benefits from existing adult-oriented analyses to children.

2000

Market Mechanisms and Incentives for Environmental Management

This competition offered in cooperation with the EPA Office of Policy and Innovation



DMVEP Program

- **Costs of Environmental Programs:** This area of research seeks to find and test integrated models and improved methods to estimate and validate aggregate and sectoral costs of environmental protection programs and policies.
- **Ecosystem Valuation:** Scientific advances in ecosystem research require a better understanding of the inter-connections among social, economic, physical, and biological systems. Research in this area identifies valuable ecosystem functions and focuses on how comprehensive and critical ecosystem changes can be measured in terms of social welfare.
- **Benefits of Environmental Programs and Policies:** This area of research seeks to develop methods to improve estimations of values of environmental protection programs and reductions in mortality and morbidity risks resulting from pollution and other environmental hazards.
- **Decision-Making for Environmental Policy:** This area of research examines the behavioral and institutional factors that influence the development, implementation, and evaluation of environmental policies. Improved understanding of these influences can lead to improvements in policy design and acceptability.

sought research projects on market-based mechanisms and other incentives for environmental management.

2000

Corporate Environmental Performance and the Effectiveness of Government Interventions

EPA in cooperation with DOJ/NIJ were interested in research that (1) identifies the determinants, or motivators, of regulated entities' environmental behavior and performance, and (2) assesses the influence of various governmental interventions on this behavior/performance.



2001

Corporate Environmental Behavior: Examining the Effectiveness of Government Interventions and Voluntary Initiatives

This solicitation succeeded the Corporate Environmental Performance and the Effectiveness of Government Intervention solicitation and continues to focus on the motivators behind adoption of environmentally sound business practices and the effects of government interventions on these motivators.

2001

Market Mechanisms and Incentives for Environmental Management

This RFA focused on market mechanisms and economic incentives was reissued for funding in January 2001.

2001

Valuation of Environmental

Impacts on Human Health

This RFA emphasized research that developed theoretical and/or empirical methods and data to better value (1) the health risks to children from environmental sources, or (2) health risks with delayed onset, severe and long-term health consequences, such as cancer.

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Grant Recipients

(full list by category by year also see below)

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Corporate Environmental Behavior

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Results Used by EPA and Others

The economic and decision making research conducted by many STAR grantees is being used by EPA, state, and local governments and other researchers:

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- [Conducting Stated Preference Surveys](#)
- [Cost Abatement Estimates](#)
- [Marketable Permits - Air Pollution Trades](#)
- [Land Preservation/Environmental Management](#)
- [Fast-track Programs](#)
- [Risk Reduction Valuation](#)
- [Wetlands Restoration](#)
- [Communication/Risk Perception](#)

Cost Benefit Analyses

- The recently published Guidelines for Preparing Economic Analyses (EPA, 2000), EPA's peer-reviewed guidance for cost-benefit and other economic analyses supporting rulemaking and policies, includes citations of 10 STAR supported socio-economic research publications from peer-reviewed journals (out of a total of about 60 STAR socio-economic projects completed at the time). These effectively will help guide policy development at EPA for the



foreseeable future.

[Guidelines for Preparing Economic Analyses](#)

- Herriges, et al's (Iowa State Univ.) research on valuing water quality improvements provided results that were used by EPA's Office of Water in preparing: "Economic, Environmental, and Benefits Analysis of the proposed Metal Products & Machinery Rule".

Original Abstract

- Smith's (North Carolina State Univ.) STAR research on the effects of air pollution on property values was used as new evidence in planning for EPA's second prospective 812 cost-benefit study according to a staff review document. The same study was also referenced in the European Union's assessment of benefit measurement methods for valuing air pollution.

Original Abstract

- Similarly, in the draft analytic plan prepared by EPA's Air Office, reviewed by the Science Advisory Board, Hammitt et al's (Harvard University) research on a contingent valuation approach to valuing mortality risk reductions provided the only two CV studies, of more than 80 studies reviewed, that met EPA-proposed quality criteria for use in the forthcoming (second) prospective Section 812 cost benefit study of the Clean Air Act.

Original Abstract

- Gregory, et al (Decision Research), have undertaken STAR-supported empirical work on discounting of environmental, health and monetary goods. Because of its path-breaking nature and direct implications for benefit cost analysis, the researchers have been asked by several agencies to share initial results and to discuss their implications for ongoing analyses. Researchers have reported findings to the City of Seattle (King County, WA), the Conference Board of Canada, EPA's Superfund program and the National Estuary Program. Researchers are also incorporating new results into current work on hazardous and radiation waste cleanup options for the Department of Energy

Original Abstract

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Conducting Stated Preference Surveys

- EPA's National Center for Environmental Economics in the Administrator's Office (NCEE) is in the early stages of developing a handbook for practitioners conducting stated preference surveys. The handbook will draw heavily on several published STAR grant results, notably Carson (U. Cal. San Diego).

Original Abstract

- Carson's (U. Cal. San Diego) theoretical research into incentive-compatible formats for stated preference surveys is now being used by other, independent, researchers who will be developing surveys that will establish values for ecological resources (Hanemann, U. Cal Berkeley), and human health, including reducing fatal risks (DeShazo & Cameron, UCLA). This second-stage research will likely be very important to EPA and state policy analysts evaluating the costs and benefits of environmental programs. This illustrates how basic theoretical research supported by STAR influences a field of study, which ultimately is translated into empirical results that are used in policy development.

Original Abstract

- Kanninen, (University of Minnesota) used a STAR grant to develop a theoretical (methodological) framework to improve the statistical efficiency of stated preference surveys, allowing researchers to develop statistically valid results using smaller sample sizes, which reduces the cost of conducting surveys. The method has been used in at least two other studies, one in a STAR grant studying the value of wetlands (Hoehn, Michigan State University), and, in a separate study, the attributes of Michigan bird-watching sites. This is demonstrative of how theoretical results ultimately make their way into policy-making

Original Abstract

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Cost Abatement Estimates

- Gray & Shadbegian's (Clark University) research has reportedly

been used in EPA discussions with OMB about pollution abatement cost estimates in conjunction with the Thompson report - an annual OMB report to Congress on the overall costs of regulation. This research has also improved EPA's ability to interpret of the Census's Pollution Abatement and Control Expenditure data, and was included in briefings for the last EPA Administrator on the costs of environmental protection.

Original Abstract

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Marketable Permits - Air Pollution Trades

- STAR research on marketable permits for air pollution (Burtraw et al, Resources for the Future) in the presence of pre-existing taxes has been used by the Clean Air Markets Division of the Office of Air and Radiation, as well as the Departments of Treasury and Commerce to evaluate the impacts of carbon taxes and other air pollution trades. The investigators also have made presentations to the President's Council of Economic Advisors, state governments and the OECD, they also conducted a briefing for legislative and agency staff on capital hill and provided guidance to the Congressional Budget Office. One researcher was appointed to the Intergovernmental Panel on Climate Change (IPCC) as a result of this research. This research also has influenced two European countries to reevaluate their pollution tax policy proposals.

Original Abstract

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Land Preservation/Environmental Management

- EPA's Region 3 is initiating efforts to use the results of STAR research identifying cost-effective means to preserve migratory bird habitat (ReVelle, Johns Hopkins University) in several important ways throughout the mid-Atlantic region: 1. along with other information (e.g., weather information) Region 3 is using the study methods to alert the public and local governments about bird migration patterns, which will influence pesticide applications and

timing, land use decisions and NEPA applications; 2. Region 3 is using the information from this research to advise USDA and state environmental agencies to better select plant species used in streambank buffers to prevent nonpoint water pollution so they will also provide migratory bird habitat; and 3. Region 3 also is using this research to modify oil spill responses to better address migratory bird habitat protection.

Original Abstract

- EPA's region 3 also is intending to employ Bockstael's (Univ. of Maryland) research on the effectiveness of farmland preservation programs in its Mid-Atlantic Integrated Assessment Project

Original Abstract

- Swallow (University of Rhode Island) reports that his research is helping state and local officials (e.g., town planners), and non-profit organizations (e.g., land trusts) rank priorities for conservation dollars, and plan for management of urban sprawl. This research has helped these groups improve their integration of public values for open space into new development. This researcher has been contacted by land developers from Florida, Washington state, and St. Louis County, who want to learn to use environmental impact fees to preserve open space.

Original Abstract

- In order to make effective stakeholder participation possible, Morgan, et al's (Carnegie Mellon) research developed comprehensible and comprehensive representations of the complex scientific and value issues involved in environmental management. The researchers also developed methodologies that allow thoughtful, unbiased deliberation by stakeholders. The researchers' approaches have been used in a number of relevant decision forums, include deliberations of EPA's Science Advisory Board and several highly visible committees of the National Academy of Science/National Research Council/Institute of Medicine.

[Original Abstract](#)

- As a result of his STAR grant research on fragmentation of habitat and shoreline development, another

grantee (Lemberg, Western Michigan University) was asked to review and revise a proposed shoreline development ordinance for Prairieville Township, Barry County, Michigan. Issues included setback of structures, height above shoreline, and width of shoreline vegetation buffer. He was also asked by the Gun River Watershed Project Steering Committee in Gun Plain Township, Allegan County, Michigan to do a field survey of a stretch of the Gun River to evaluate potential for native plant landscaping to mitigate stream bank erosion problems. He also has been receiving requests from lakeshore associations for consulting on lakeshore landscaping.

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Fast-track Programs

- Krupnick and Blackman's (Resources for the Future) research on the efficiency of EPA's XL program has direct policy relevance for designing future "fast-track" programs. EPA's Office of Policy, Economics and Innovation has consulted the researchers regarding the results.

[Original Abstract](#)

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Risk Reduction Valuation

- Mortality risk reduction valuation research by STAR supported researchers (Krupnick, et al, Resources for the Future) was used by Health Canada, which proceeded to fund a similar study on Canadian population. In addition, this work led the European Community to fund a study of mortality risk valuation estimates in France, Britain, Spain, Germany and Italy. It also led Korean researchers who were working with EPA's International Office to do a mortality risk valuation study using the STAR researchers' instrument for a sample of Koreans. The Canadian study is significantly referenced in a recent report of the Royal Society of Canada (the NAS equivalent) evaluating the cost-benefit analysis performed by Environment Canada for the proposed changes to the PM standards.

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Wetlands Restoration

- Opaluch's (University of Rhode Island) STAR research is being used by the state of Rhode Island to develop an approach to prioritize wetlands restoration projects. The researchers are coordinating with the State of Rhode Island Department of Environmental Management and Coastal Resources Management Council to use a public survey conducted under a STAR grant as input into their process to set priorities for restoration actions.

[Original Abstract](#)

- The research team of Hulse, et al (Univ. of Oregon) have worked closely with the Willamette Restoration Initiative, a group appointed by Oregon's Governor Kitzhaber, to develop a restoration strategy for the Willamette River and surrounding lands. This restoration strategy was published and delivered to the Governor and legislature of Oregon in February 2001 (see <http://www.oregonwri.org> ). The first of 4 key recommendations by the group is to use the spatially-explicit restoration prioritization developed primarily through work by the PIs on this project.

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Communication/Risk Perception

- Werner's (Univ. of Utah) research into communication and household hazardous waste management behavior has been used by local government program managers to improve communications, often at a lower cost, that has resulted in improved management of household hazardous waste.

[Original Abstract](#)

- One researcher (Fischhoff, Carnegie Mellon University) reports that as a result of his STAR supported research on risk perception and constructed preference, he has become involved with businesses, and state and local governments in negotiations involving pipeline siting, nuclear power plant siting, electricity deregulation, power

plant refueling, the anthrax vaccine, hazardous material labeling, and toxicity research reporting.

[Original Abstract](#)

- Beierle's, (Resources for the Future) survey of electronic participation mechanisms in state environmental agency websites was the most downloaded paper ever from Resources for the Future's website--around 6,000 copies in a month, with apparently high use by state agency staff. The project also led to the PI's involvement in an electronic dialogue that EPA just conducted on public participation in EPA decisions, which resulted in proposed pilot projects using these electronic dialogues as integral parts of public participation in rulemaking.

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Annual Review Workshops were designed to allow federal officials and Investigators to interact and for the significance the funded studies and preliminary findings to be discussed.

The following reports funded by EPA and NSF were conducted to determine if the DMVEP program is producing useful results and communicating them effectively. Results of the program are assessed and summarized, and a bibliometric analysis is also included:

[Evaluation Report:](#)

["A Decision Making and Valuation for Environmental Policy Interim Assessment " \(PDF\)](#)

[Final Report: Interim Assessment for the Decision Making and Valuation for Environmental Policy Grants Program \(PDF\)](#)

- [Appendix A: Grants by Research Category](#)



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Assessment
\(PDF\)](#)

- [Appendix
C
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Grant
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\(PDF\)](#)

The following workshops provided a forum for investigators to interact with one another and with EPA, NSF, and other federal officials interested in valuation research.

[Proceedings 1998
Decision-Making
and Valuation for
Environmental
Policy Workshop
\(PDF\)](#)

[Proceedings 1997
Decision-Making
and Valuation for
Environmental
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\(PDF\)](#)

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● **STAR Report #8**



This

report describes economic and ecological research supported by EPA's STAR program to meet the needs for cost, benefit and valuation information to support environmental decision making.

- Research capsule being drafted
- State of Science Report underway: A report will be developed characterizing the state of the science in valuation and suggesting priority areas for investing research funds



Environmental Decision Making and Economics

Environmental policies and programs are intended to protect the health and well being of humans and ecosystems. Policies that protect the environment also provide economic value and other benefits to society. Federal environmental laws typically require some economic analyses to be conducted by implementing agencies.

Methods commonly used by economists to measure public values include revealed or stated preference methods and contingent valuation. Representatives of the public are surveyed, or choices made by individuals or supported by the public in local government forums are determined, to learn how various types of environmental protection have been valued. Measures used by ecologists to describe the functions and services of healthy ecosystems are also central to valuing the benefits of environmental protection. Each of these types of approach are furthered by research supported by the STAR program.

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(Leave this question here - Thought there was a collection of CERI economic stuff on NCEE site - but can't find it - other suggestions?)

Systems Analysis Branch



The [Systems Analysis Branch](#) of the National Risk Management Research Laboratory (NRMRL) develops and demonstrates cost-effective decision making tools for use by public and private sectors. The tools integrate environmental solutions, life cycle concepts, value engineering, environmental engineering, economics, trade-offs, and pollution prevention factors.

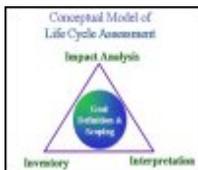


Simulation and Design

[Simulation and Design](#) - this team develops computerized approaches to achieving environmentally beneficial changes in manufacturing processes and products.



Life Cycle Assessment



[Life Cycle Assessment](#) - this team is involved in the advance of LCA practice and application across the public and private sectors.

Impact Assessment and Measurement (IAM)

The [IAM](#) program focuses on the development and application of environmental impact assessment and progress measurement for environmental decision making.

Environmental Engineering Economics



[Environmental Engineering Economics](#) -

this program provides scientists and decision makers information on NRMRL activities related to the cost and cost effectiveness of environmental technologies and risk management methods.

Engineering Trade-Offs

[Engineering Trade-Offs](#)

team - this NRMRL team is tasked to develop a new integrated decision making approach to compare two or more states of being: a



benchmark and an alternative, a change in a production process, alternative processes or products. Differences in engineering performance, , economic/cost efficiency, environmental burdens, and social resistance to change are highlighted.

Tools Integration for Sustainable Development



[Tools Integration for Sustainable Development](#)

- This NRMRL team focuses on the identification, development, integration, and application of environmental decision making tools.

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Office of Policy, Economics, and Innovation



The [Office of Policy, Economics, and Innovation](#) is EPA's primary policy arm which houses the National Center for Environmental Economics and groups

innovative approaches to compliance including voluntary partnerships, market - based incentives, and new technologies.



Innovative Approaches

[Innovative Approaches](#) relays numerous EPA programs that encourage voluntary actions into regulatory approaches including Partners for the environment, Project XL, Community Based programs and others.

National Center for Environmental Economics

EPA's [National Center for Environmental Economics](#) (NCEE)

conducts and supervises research and development on economic analytic methods; leads production of cross-Agency economic reports; provides guidance for performing economic analysis; promotes consistency in the preparation and presentation of economic information in the Agency. The Center prepares economic analyses under its own direction, and functions as an internal resource for other Agency offices



seeking information on benefit-cost research and techniques, economic impact models and measures, and economic incentive mechanisms. The Center also conducts research on environmental health issues in an effort to improve risk assessment data used in economic analyses and aid in the evaluation and design of environmental programs.

Regulatory Economic Analyses Inventory

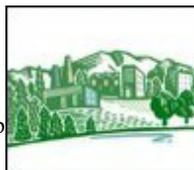
The [Regulatory Economic Analyses Inventory](#) is a searchable database of more than 1700 document descriptions with more than 50 downloadable EPA economic analysis reports, organized by assessment topics.

Office of Pollution Prevention and Toxics (OPPT) - Economic Analysis

[OPPT - Economic Analysis](#) - This site relays the economic analyses conducted by EPA's Office of Pollution Prevention and Toxics as part of its decision making process, under TSCA, EPCRA, AHERA and ASHAA. The site includes market studies, financial feasibility studies, and industry sector studies.

Design for the Environment (DfE)

This site describes the [Design for the Environment](#) (DfE) program which is one of EPA's premier partnership programs, working with individual industry sectors



to compare and improve the performance and human health and environmental risks and costs of existing and alternative products, processes, and practices.

Pollution Prevention - Business Practices



The EPA's [Pollution Prevention - Business Practices](#) site describes several programs through which EPA promotes environmental stewardship to the

business community via several programs that encourage businesses to incorporate environmental concerns into their standard financial and accounting practices.

Office of Water - Water Quality Economics and Benefits

EPA's [Office of Water](#) program is designed to improve the data and methods used for estimating benefits of water quality programs instituted under the 1972 Clean Water Act.



Safe Drinking Water



[Safe Drinking Water](#) -

This site relays new cost benefit analyses for upcoming drinking water regulations. EPA is developing a new regulatory impact analysis

framework for proposed drinking water regulations. The Safe Drinking Water Act, as amended in 1996, requires that whenever EPA proposes a national primary drinking water regulation, EPA must publish a cost-benefit analysis. Components of the analysis include treatment design, unit treatment costs and national costs, model systems development, baseline estimates, data quality objectives, and benefits analysis.

Allowance Trading

[Allowance Trading](#) - Site

describes how to use the allowance trading system for sulfur dioxide air emissions. Allowance trading is the centerpiece of EPA's Acid Rain Program, and allowances are the currency with which compliance with the SO₂ emissions requirements is achieved. Through the market-based allowance trading system, utilities regulated under the program, rather than a governing agency, decide the most cost-effective way to use available resources to comply with the acid rain requirements of the Clean Air Act. Utilities can reduce emissions by employing energy conservation measures, increasing reliance on renewable energy, reducing usage, employing pollution control technologies, switching to lower sulfur fuel, or developing other alternate strategies. Units that reduce their emissions below the number of allowances they hold may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. Allowance trading provides incentives for energy conservation and technology innovation that can both lower the cost of compliance and yield pollution prevention benefits.



Clean Air Act - Cost Benefit Analyses



[Clean Air Act - Cost](#)

[Benefit Analyses](#) - Relays the cost benefit analyses related to the Clean Air Act.

Air Quality Management - Cost Benefit Analyses

[Air Quality Management - Cost Benefit Analyses](#) -

Relays information on cost benefit analysis of air quality management strategies and new methods for assessing benefits costs and market assessments associated with the National Emission Standard programs and State and local air



pollution control programs.

Root Causes of Non-compliance



[Root Causes of Non-compliance](#) - From 1996 through 1998, EPA and the Chemical Manufacturers Association (CMA)

worked together to pilot an approach for identifying and evaluating the root causes (that is, underlying causes) of noncompliance with regulatory requirements, to identify recommendations for improving compliance, and to provide insight into the effect of environmental management systems (EMS) on compliance. This site relays the details of this report.

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National Science Foundation DMVEP Program

This is the [National Science Foundation's DMVEP Program site](#) [EXIT disclaimer](#) . The National Science Foundation (NSF) and the Environmental Protection Agency (EPA) have jointly supported extramural grant activities in this field since fiscal year 1995. DMVEP encourages research that will contribute to the development of practical, credible approaches for estimating the benefits and costs of environmental programs and improving decision making about environmental issues.



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NSF/EPA - Decision Making and Valuation for Environmental Policy (DMVEP)

| [1995](#) | [1996](#) | [1997](#) | [1998](#) | [1999](#) | 2000 | 2001 |

Corporate Environmental Behavior

| [2000](#) | 2001 |

Human Health Valuation

| 2000 | 2001 |

Market Mechanisms and Incentives for Environmental Management

| [2000](#) | 2001 |

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Workshops and Conferences

NCER and NCEE have jointly sponsored a series of social science research workshops, with six topical workshops that present STAR grant and other research taking place from Fall 1998 through Fall 2000. These workshops included:

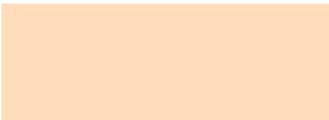
- *Valuing and Managing Ecosystems*
- *Valuing Health for Environmental Policy with Special Emphasis on Children's Health Issues*
- *Economic Research and Policy Concerning Water Use and Watershed Management*
- *Community Based Environmental Decision-Making*
- *Stated Preference: What do we know? Where do we go?*
- *Economic Analysis and Land Use Policy*

* Beyond Compliance

Two workshops are planned each year for the next few years. The format of the workshops includes research presentation and discussions by EPA and external parties. Proceedings, including discussions, are available on the web (see at: <http://www.epa.gov/economics/> link to Workshop Series, Past Workshops, Proceedings).



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NCER also co-sponsored a research symposium with EPA's Office of Enforcement and Compliance Assurance and Department of Justice's National Institute of Environmental Justice (NIJ) and Environmental and Natural Resources Division. The symposium, in May 1998, hosted the pre-eminent researchers in the field of deterrence and enforcement effectiveness and resulted in the establishment of a new STAR grant program in 2000, Corporate Environmental Behavior and the Effectiveness of Government Intervention.

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Science Topics: Economics and Decision Sciences - Research Results

Number	Identifier	Abstract	Annual/ Final Reports	Pubs Count	Proposed Start Date
1	R824671	Environmental Values and National Economic Accounts	1997	Total Pubs: 1	October 1995 - June 1997
			Final		
2	R824310	How People Respond to Contingent Valuation Questions	1997	-- No Pubs --	October 1995 - April 1998
			Final		
3	R824711	Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study	1997		October 1995 - September 1997
			Final		
4	R824693	Towards a Social Psychology of Stated Preferences	1997	Total Pubs: 4 Journals: 4	October 1995 - December 1999
			Final	-- No Books --	
5	R824710	Valuing Environmental Damages with Stated Preference Methods New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods	1997		November 1995 - October 1996
			Final		
6	R824698	Comparative Studies of Approaches to Eliciting Economic Values	1997	Total Pubs: 9 -- No Journals -- -- No Books --	October 1995 - September 1997
			Final		
7	R824679	Preference Formation and Elicitation in Valuing Non-Market Goods	1997		October 1995 - September 1997
			Final		
8	R824706	Eliciting Environmental Values A Constructivist Approach	1997	Total Pubs: 10 Journals: 2	October 1995 - September 1997
			Final	-- No Books --	
9	R824699	Innovation in the Valuation of Ecosystems A Forest Application	1997	Total Pubs: 5	October 1995 - September 1997
			Final		
10	R824707	Deriving Biodiversity Option Value Within a Model of Biotechnology Research and Development	1997	Total Pubs: 11 -- No Journals -- -- No Books --	October 1995 - September 1997
			Final		
11	R824709	Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context	1997		October 1995 - September 1997
			Final		
12	R824687	Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation	1997	Total Pubs: 1 -- No Journals -- -- No Books --	October 1995 - April 1997
			Final		
13	R824886	Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys	1997	Total Pubs: 6	July 1996 - April 1999
			Final		
14	R824688	Can Contingent Valuation Measure Passive Use Values	1997	-- No Pubs --	October 1995 - September 1997
			Final		
15	R824705	Valuing the Stock and Flow of Mineral and Renewable Assets in National Income Accounting	1997		October 1995 - September 1997

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Science Topics: Economics and Decision Sciences - Research Results

Number	Identifier	Abstract	Annual/ Final Reports	Publs Count	Proposed Start Date
1	R825313	Effective Environmental Policy in the Presence of Distorting Taxes	1997 1998 Final	Total Pubs: 74 Journals: 13 Books: 3	October 1996 - September 1998
2	R825311	Decision-Making under Uncertainty in the Conservation of Biological Diversity	1997 Final	Total Pubs: 13 Journals: 10 -- No Books --	October 1996 - October 1998
3	R825308	Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework	1997 Final	Total Pubs: 5 Journals: 1	October 1996 - September 1997
4	R825307	Stated Preference Valuation Using Real Money for Real Forested Wetlands	1997 1999 Final	Total Pubs: 5 Journals: 1 -- No Books --	October 1996 - October 1998
5	R825310	Updating Prior Methods for Non-Market Valuation A Bayesian Approach to Combining Disparate Sources of Environmental Values	1997 1998 Final	Total Pubs: 10 Journals: 3	October 1996 - September 1998
6	R825312	Valuation of Risks to Human Health Insensitivity to Magnitude?	1997 1998 1999 Final	Total Pubs: 34 Journals: 6 -- No Books --	October 1996 - October 1999
7	R825309	Ecosystem Valuation Policy Applications for the Patuxent Watershed Ecological-Economics Model	1997 Final	Total Pubs: 36 Journals: 5 Books: 1	January 1997 - December 1998

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Number	Identifier	Abstract	Annual/ Final Reports	Pubs Count	Proposed Start Date
1	R825825	A Decision Analysis Framework for Groundwater Remediation	1999 Final	Total Pubs: 24 Journals: 4	October 1997 - September 2000
2	R825822	Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds	2000	Total Pubs: 3 -- No Journals -- -- No Books --	October 1997 - September 2000
3	R825995	Stigma of Environmental Damage on Residential Property Values	Final	Total Pubs: 5	October 1997 - August 1998
4	R825996	Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways	1999 Final	Total Pubs: 3 Journals: 1 -- No Books --	October 1997 - September 1999
5	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	1999		October 1997 - September 2000
6	R825826	Improving Air Quality Benefit Estimates from Hedonic Models	1998 Final	Total Pubs: 8 Journals: 2 Books: 1	October 1997 - September 1998
7	R825827	Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach	1998 Final	Total Pubs: 18 Books: 3	October 1997 - December 1998
8	R825824	A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains	1998 Final	Total Pubs: 21 Journals: 3 -- No Books --	October 1997 - September 1999

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1	R826612	Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices	Salzman, James Ehrlich, Paul Daily, Gretchen Daly, Herman King, Dennis Ruhl, J. B. Fischman, Robert	June 1998 - December 1999
2	R826608	The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments	Krupnick, Alan J. Cropper, Maureen Alberini, Anna Belli, Robert Simon, Nathalie	October 1998 - September 2000
3	R826617	The Impact of Farmland Preservation Programs	Bockstael, Nancy Nickerson, Cynthia J.	October 1998 - September 1999
4	R826615	An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand	Herriges, Joseph A. Kling, Catherine L. Phaneuf, Daniel J.	September 1998 - August 2001
5	R826611	Assessing Preferences for Environmental Decisions with Long-Term Consequences	Keller, Robin Eppel, Thomas	July 1998 - June 2000
6	R826614	Multi-Objective Decision-Making for Environmental Remediation	Mayer, Alex Horn, Jeff Enfield, Carl	September 1998 - August 2001
7	R826619	Land and Management with Biological and Economic Objectives	Montgomery, Claire Arthur, Jeffrey L. Polasky, Steve	October 1998 - December 2000
8	R826610	Environmental Policy and Endogenous Technical Change: A Theoretical & Empirical Analysis	Opaluch, James J. Jin, Di Grigalunas, Thomas A.	October 1998 - September 2001
9	R826609	The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies	Smith, V. Kerry Sieg, Holger	September 1998 - August 2001
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1	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	2000	Total Pubs: 4 Journals: 1	December 1999 - December 2001
2	R827918	Voluntary Environmental Standards: Furthering Moral Suasion While Preventing Moral Hazard	2000	Total Pubs: 21 Journals: 1 -- No Books --	September 1999 - October 2001
3	R827987	Optimal Experimental Design for Nonmarket Choice Experiments	2000	Total Pubs: 3 Journals: 1	January 2000 - June 2002
4	R827972	Over-compliance in Point Source Water Pollution	No Annual Reports	-- No Pubs --	December 1999 - December 2000
5	R827920	Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks	2000	Total Pubs: 10	December 1999 - December 2001
6	R827922	Web-Based Methods for Valuing Wetland Services	2000	Total Pubs: 3 -- No Journals -- -- No Books --	October 1999 - September 2002
7	R827921	Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities	2000		September 1999 - December 2001
8	R827931	Understanding Observed Differences in Time-Preference Rates	2000	Total Pubs: 6 -- No Journals -- -- No Books --	September 1999 - September 2001
9	R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies	2000	Total Pubs: 1	October 1999 - September 2002

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Number	Identifier	Abstract	Principal Investigator	Proposed Start Date
1	R828826	Organizational Structures, Citizen Participation, and Corporate Environmental Performance	Grant, Don	June 2001 - May 2002
2	R828824	Determinants of Environmental Compliance: Plant, Firm, and Enforcement Factors	Gray, Wayne B. Shadbegian, Ronald J.	May 2001 - April 2004
3	R828828	"Shaping Corporate Environmental Behavior and Performance: The Impact of Enforcement and Non-Enforcement Tools"	Earnhart, Dietrich H. Haider-Markel, Donald Ebihara, Tatsuji Glicksman, Robert	March 2001 - March 2004
4	R828827	Tracking Deterrent Messages in Environmental Enforcement	Kagan, Robert A. Gunningham, Neil Thornton, Dorothy	June 2001 - May 2003
5	R828825	Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution	May, Peter J.	June 2001 - June 2004

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Number	Identifier	Abstract	Principal Investigator	Proposed Start Date
1	R828721	Evaluating the Dissemination and Impact of Toxics Release Inventory Data	Vasu, Michael Atlas, Mark Dimock, Michael	December 2000 - November 2002
2	R828626	Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare	Moore, Michael R. Kotchen, Matthew J.	January 2001 - December 2002
3	R828627	Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements	Sohngen, Brent Randall, Alan	September 2000 - August 2002
4	R828631	Multi-Lateral Emissions Trading: Political Economy and Firm Response	Farrell, Alex Dowlatabadi, Hadi Epple, Dennis Farrow, Scott	September 2000 - August 2002
5	R828628	Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances	Burtraw, Dallas Fischer, Carolyn Pizer, Billy	October 2000 - September 2002
6	R828629	Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees	Swallow, Stephen K.	January 2001 - February 2003
7	R828630	Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments	Ellerman, A. Denny Joskow, Paul L. Schmalensee, Richard Montero, Juan Pablo	October 2000 - March 2003

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1		R824671	Environmental Values and National Economic Accounts	Flores, Nicholas E.	October 1995 - June 1997
2		R824310	How People Respond to Contingent Valuation Questions	Payne, John W. Desvougues, William H. Schkade, David A.	October 1995 - April 1998
3		R824711	Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study	Krupnick, Alan J. Cropper, Maureen Alberini, Anna Belli, Robert Simon, Nathalie	October 1995 - September 1997
4		R824693	Towards a Social Psychology of Stated Preferences	Dietz, Thomas Guagnano, Gregory A. Stern, Paul C.	October 1995 - December 1999
5		R824710	Valuing Environmental Damages with Stated Preference Methods New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods	Cummings, Ronald G. Osborne, Laura L. Pate, James Brewer, Paul	November 1995 - October 1996
6		R824698	Comparative Studies of Approaches to Eliciting Economic Values	Carson, Richard T. Groves, Theodore Machina, Mark J.	October 1995 - September 1997
7		R824679	Preference Formation and Elicitation in Valuing Non-Market Goods	Brookshire, David S. Berrens, Robert Ganderton, Philip McKee, Michael Jenkins, Hank Kaplan, Hillard	October 1995 - September 1997
8		R824706	Eliciting Environmental Values A Constructivist Approach	Fischhoff, Baruch	October 1995 - September 1997
9		R824699	Innovation in the Valuation of Ecosystems A Forest Application	Russell, Clifford Dale, Virginia	October 1995 - September 1997
10		R824707	Deriving Biodiversity Option Value Within a Model of Biotechnology Research and Development	Rausser, Gordon C.	October 1995 - September 1997
11		R824709	Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context	Opaluch, James J. Swallow, Stephen K.	October 1995 - September 1997
12		R824687	Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation	Mansfield, Carol Houtven, George Van Huber, Joel	October 1995 - April 1997
13		R824886	Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys	Loomis, John Fausch, Kurt Covich, Alan Kent, Paula Strange, Liz	July 1996 - April 1999

14	R824688	Can Contingent Valuation Measure Passive Use Values	Schulze, William Poe, Gregory Kahneman, Daniel Cameron, Trudy Brown, Gardner McClelland, Gary	October 1995 - September 1997
15	R824705	Valuing the Stock and Flow of Mineral and Renewable Assets in National Income Accounting	Davis, Graham	October 1995 - September 1997

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1		R825313	Effective Environmental Policy in the Presence of Distorting Taxes	Burtraw, Dallas Parry, Ian Goulder, Lawrence	October 1996 - September 1998
2		R825311	Decision-Making under Uncertainty in the Conservation of Biological Diversity	Solow, Andrew R. Camm, Jeffrey O'Connor, Raymond Csuti, Blair Polasky, Steve	October 1996 - October 1998
3		R825308	Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework	Houtven, George Van Smith, V. Kerry	October 1996 - September 1997
4		R825307	Stated Preference Valuation Using Real Money for Real Forested Wetlands	Swallow, Stephen K. Paton, Peter	October 1996 - October 1998
5		R825310	Updating Prior Methods for Non-Market Valuation A Bayesian Approach to Combining Disparate Sources of Environmental Values	Herriges, Joseph A. Kling, Catherine L.	October 1996 - September 1998
6		R825312	Valuation of Risks to Human Health Insensitivity to Magnitude?	Hammitt, James K. Graham, John Hanemann, Michael Corso, Phaedra	October 1996 - October 1999
7		R825309	Ecosystem Valuation Policy Applications for the Patuxent Watershed Ecological-Economics Model	Geoghegan, Jacqueline	January 1997 - December 1998

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3		R825995	Stigma of Environmental Damage on Residential Property Values	Rausser, Gordon C.	October 1997 - August 1998
4		R825996	Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways	ReVelle, Charles Boland, John Snyder, Stephanie Williams, Justin Malcolm, Scott Bain, Daniel	October 1997 - September 1999
5		R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Krupnick, Alan J. Shih, Jihh-Shyang Krupnick, Alan J. Shih, Jihh-Shyang Russell, Armistead G.	October 1997 - September 2000
6		R825826	Improving Air Quality Benefit Estimates from Hedonic Models	Thayer, Mark Murdoch, James C. Beron, Kurt	October 1997 - September 1998
7		R825827	Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach	Werner, Carol M.	October 1997 - December 1998
8		R825824	A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains	Halstead, John M. Stevens, Thomas H. Hill, L. Bruce	October 1997 - September 1999

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9		R826609	The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies	Smith, V. Kerry Sieg, Holger	September 1998 - August 2001
10		R826616	Estimating the Cost of Carbon Sequestration in Global Forests	Sohngen, Brent Mendelsohn, Robert Sedjo, Roger	September 1998 - August 2000
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3		R827987	Optimal Experimental Design for Nonmarket Choice Experiments	Kanninen, Barbara J.	January 2000 - June 2002
4		R827972	Over-compliance in Point Source Water Pollution	Horowitz, John K.	December 1999 - December 2000
5		R827920	Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks	Morgan, Granger Dekay, Michael Fischbeck, Paul	December 1999 - December 2001
6		R827922	Web-Based Methods for Valuing Wetland Services	Hoehn, John P. Lupi, Frank Kaplowitz, Michael D.	October 1999 - September 2002
7		R827921	Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities	Boyd, James Simpson, R. David	September 1999 - December 2001
8		R827931	Understanding Observed Differences in Time-Preference Rates	Gregory, Robin Slovic, Paul Knetsch, Jack Lichtenstein, Sarah Finucane, Melissa Peters, Ellen Arvai, Joseph Burns, Katie	September 1999 - September 2001
9		R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies	Weinberg, Marca Wilen, James Quinn, James	October 1999 - September 2002

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1		R829407	Environmental Management Systems: Informing Organizational Decisions	Lave, Lester Hendrickson, Chris	November 2001 - October 2003
2		R829508	Measuring Economics Benefits for Amenity Consequences of Land Cover Changes	Smith, V. Kerry Phaneuf, Daniel J. Palmquist, Raymond B.	October 2001 - September 2004
3		R829384	Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools	Swallow, Stephen K. Paton, Peter	January 2002 - December 2003
4		R829440	Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance?	Andrews, Richard N. Amaral, Deborah	November 2001 - November 2003
5		R829485	Not All Deaths are Created Equal: Understanding Individual Preferences for Reductions in Morbidity-Mortality Events	DeShazo, J. R. Cameron, Trudy	October 2001 - September 2003

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1		R828826	Organizational Structures, Citizen Participation, and Corporate Environmental Performance	Grant, Don	June 2001 - May 2002
2		R828824	Determinants of Environmental Compliance: Plant, Firm, and Enforcement Factors	Gray, Wayne B. Shadbegian, Ronald J.	May 2001 - April 2004
3		R828828	"Shaping Corporate Environmental Behavior and Performance: The Impact of Enforcement and Non-Enforcement Tools"	Earnhart, Dietrich H. Haider-Markel, Donald Ebihara, Tatsuji Glicksman, Robert	March 2001 - March 2004
4		R828827	Tracking Deterrent Messages in Environmental Enforcement	Kagan, Robert A. Gunningham, Neil Thornton, Dorothy	June 2001 - May 2003
5		R828825	Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution	May, Peter J.	June 2001 - June 2004

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<input type="checkbox"/> Annual and Final Reports	<input type="checkbox"/> Publication Count
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1		R828716	Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory)	Crocker, Thomas D. Agee, Mark D. Shogren, Jason F.	December 2000 - November 2003
2		R828717	Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay	Dickie, Mark Gerking, Shelby	January 2001 - December 2003

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Number	Add to Report?	Identifier	Abstract	Principal Investigator	Proposed Start Date
1		R828721	Evaluating the Dissemination and Impact of Toxics Release Inventory Data	Vasu, Michael Atlas, Mark Dimock, Michael	December 2000 - November 2002
2		R828626	Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare	Moore, Michael R. Kotchen, Matthew J.	January 2001 - December 2002
3		R828627	Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements	Sohngen, Brent Randall, Alan	September 2000 - August 2002
4		R828631	Multi-Lateral Emissions Trading: Political Economy and Firm Response	Farrell, Alex Dowlatabadi, Hadi Epple, Dennis Farrow, Scott	September 2000 - August 2002
5		R828628	Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances	Burtraw, Dallas Fischer, Carolyn Pizer, Billy	October 2000 - September 2002
6		R828629	Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees	Swallow, Stephen K.	January 2001 - February 2003
7		R828630	Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments	Ellerman, A. Denny Joskow, Paul L. Schmalensee, Richard Montero, Juan Pablo	October 2000 - March 2003

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 _ ecovalair.html	22-Apr-02 16:21	27K	
 _ ecovalland.html	22-Apr-02 16:21	36K	
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 _ ecovalwater.html	22-Apr-02 16:21	37K	
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Tabular Query Results of NCER Program and Solicitation Information

4 Abstracts are listed

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	none	Evaluation of Cr(VI) Exposure Assessment in the Shipbuilding Industry	Urban Waste Management & Research Center	Bhaskar Kura, Ph.D., Assistant Professor, Civil and Environmental Engineering	none	none	none	Highlighted

2	R82-1240-101	Economic and Social Impact of Employees Commute Requirements of the Federal Clean Air Act Amendments of 1990	Towson State University	Gordon Scott Bonham	none	\$341,233	3 years	Highlighted
3	R826155	Environmental Regulation and Productivity Benefits in the Paper Industry	George Perkins Marsh Institute, Clark University	Wayne B. Gray and Ronald J. Shadbegian	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
4	R828631	Multi-Lateral Emissions Trading: Political Economy and Firm Response	Carnegie Mellon University	Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow	Matthew Clark	\$149,366	September 1, 2000 - August 31, 2002	Highlighted

Collections that were searched are:

Research Center Research Projects
Fellowship Research Projects
Grants Research Projects

Query was:

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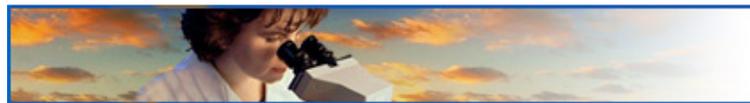
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regulat* cost" "government intervention cost" "cost of compliance" "cost of regulat*" "cost of government intervention" (cost (pollution prevention emission* trading voluntary compliance))">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R825370C006	Pollution Prevention Process Simulator	Michigan Technological University	B.A. Barna, T.N. Rogers, P.P. Radecki	none	none	none	Highlighted
2	R828631	Multi-Lateral Emissions Trading: Political Economy and Firm Response	Carnegie Mellon University	Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow	Matthew Clark	\$149,366	September 1, 2000 - August 31, 2002	Highlighted
3	R826739	New Methods for Assessment of Pollution Prevention Technologies	North Carolina State University	H. Christopher Frey and Morton A. Barlaz	Barbara Karn	\$180,000	October 1, 1998 - September 30, 1999	Highlighted

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4	104UHH2345	Life-Cycle Environmental Costing for Managing Pollution Prevention in the Chemical and Petroleum Refining Industries: A Cross-Border Approach	University of Houston	Beth Beloff, David Shields, Miriam Heller	none	none	none	Highlighted
5	none	Evaluation of Cr(VI) Exposure Assessment in the Shipbuilding Industry	Urban Waste Management & Research Center	Bhaskar Kura, Ph.D., Assistant Professor, Civil and Environmental Engineering	none	none	none	Highlighted
6	R824741	Pollution Prevention Technology Transfer for the Printing Industry	Institute of Advanced Manufacturing Sciences, Inc. (IAMS)	Sally Clement and Larry Kramer	Matthew Clark	\$259,284	October 1995 - October 1997	Highlighted
7	R825370C036	The Design Option Ranking Tool	Michigan Technological University	B.A. Barna and T.N. Rogers	none	none	none	Highlighted
8	R825331	Pollution Prevention in Industrial Condensation Reactions	Research Triangle Institute	James J. Spivey and Makarand R. Gogate	Barbara Karn	\$359,906	October 1, 1996 - September 30, 1999	Highlighted
9	R824744	Preparation of Pollution Prevention and Socio-Economic Monographs Using EPA CSI and the DfE Program	Water Environment Federation	Albert Gray, Robert Schweinfurth, and Kimberly Roy	Paul Shapiro	\$100,000	October 1, 1995 - September 30, 1997	Highlighted
10	R824753	Assessing Compliance Burden from Implementation of CAAA Title V Permitting Rules and Regulations	Georgia Institute of Technology	Barry Bozeman	Matthew Clark	\$240,000	October 1995 - September 30, 1997	Highlighted
11	R824754	Advising, Monitoring, and Evaluating a Minnesota Pollution Control Agency Pilot Project for Flexible, Multi-media Permitting	University of Minnesota; Independent Consultant; University of Minnesota	Professor Alfred Marcus, Dr. Donald Geffen, Professor Ken Sexton	Paul Shapiro	\$255,000	October 1, 1995 - September 30, 1997	Highlighted
12	R824740	A Framework to Compare Polices for Source Reduction	University of Texas at Austin	Don Fullerton, Economics	Paul Shapiro	\$88,784	October 1, 1995 - September 30, 1997	Highlighted

13	R825328	Chemical Plant Wastewater Reuse and Zero Discharge Cycles	University of Oklahoma	Miguel J. Bagajewicz	Barbara Karn	\$224,977	October 1, 1996 - September 30, 1999	Highlighted
14	R825370C050	Clean Chemicals Manufacturing Integrated Synthesis and Processing of Chemicals	University of Minnesota	P. Daoutidis, R.W. Carr, E.L. Cussler, L.D. Schmidt and F. Srienc	none	none	none	Highlighted
15	R82-1240-101	Economic and Social Impact of Employees Commute Requirements of the Federal Clean Air Act Amendments of 1990	Towson State University	Gordon Scott Bonham	none	\$341,233	3 years	Highlighted
16	R824737	Evaluation and Demonstration of Wet Cleaning Alternatives to Perchloroethylene-based Garment Care	University of California, Los Angeles	Robert Gottlieb	Matthew Clark	\$129,968	October 1, 1995 - June 1997	Highlighted
17	R828630	Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments	Massachusetts Institute of Technology	A. Denny Ellerman (ellerman@mit.edu), Paul L. Joskow, Richard Schmalensee, Juan Pablo Montero	Matthew Clark	\$289,477	October 1, 2000 - March 31, 2003	Highlighted
18	R828246	Superheated Water and Steam Degreasing of Working Stocks, Parts, and Equipment in Machining, Manufacturing and Production Processes and Operations	University of Michigan	Walter J. Weber, Jr.	Barbara Karn	\$320,000	9/1/2000 - 8/31/2003	Highlighted
19	R828163	Evaluating a New Class of Imprinted Sorbent Materials for Toxic Metals Removal	Department of Civil and Environmental Engineering, Zettlemoyer Center of Surface Science, Lehigh University	Arup K. SenGupta ¹ and Alfred Miller	S. Bala Krishnan	\$193,000	July 1, 2000 - June 30, 2002	Highlighted

20	104UAL4276	Waste Minimization in the Magnetic Tape Industry: Waterborne Coating Formulations for Magnetic Tape Manufacture	University of Alabama	David E. Nikles, Alan M. Lane	none	none	none	Highlighted
21	R825304	Environmentally Benign Photo-Assisted Catalysis Selective Oxidation Reactions in Zeolites	University of Iowa	Sarah C. Larsen and Vicki H. Grassian	Barbara Karn	\$260,228	October 1, 1996 - September 30, 1999	Highlighted
22	R825370C057	Environmentally Conscious Manufacturing: Prediction of Processing Waste Streams for Discrete Products	Michigan Technological University	John W. Sutherland and Walter W. Olson	none	none	none	Highlighted
23	R829407	Environmental Management Systems: Informing Organizational Decisions	Carnegie Mellon University, Pittsburgh, PA	Lester Lave (ll01@andrew.cmu.edu), Chris Hendrickson	Susan Carrillo	\$323,265	November 1, 2001 - October 31, 2003	Highlighted
24	R825363	Direct Quantitation Of Haloacetic Acids By Surface Enhanced Raman Scattering	Pennsylvania State University	Michael J. Natan	Sheila Rosenthal	\$163,609	November 4, 1996 - November 3, 1998	Highlighted
25	R828171	Development of a Membrane-Based Electrostatic Precipitator	Ohio University	Hajrudin Pasic, Khairul Alam, David Bayless, and David Ingram	Paul Shapiro	\$225,000	August 1, 2000 - July 31, 2002	Highlighted
26	R826155	Environmental Regulation and Productivity Benefits in the Paper Industry	George Perkins Marsh Institute, Clark University	Wayne B. Gray and Ronald J. Shadbegian	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
27	R828628	Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances	Resources for the Future	Dallas Burtraw (Burtraw@rff.org), Carolyn Fischer, Karen Palmer, Billy Pizer	Matthew Clark	\$251,000	October 1, 2000 - September 30, 2002	Highlighted
28	R825394	Sub-Critical Water Extraction of Organic Pollutants	University of North Dakota; University of Leeds	Steven B. Hawthorne and Anthony Clifford	Sheila Rosenthal	\$374,925	December 24, 1996 - December 23, 1999	Highlighted
29	R824739	Wind Energy Assessment in China	American Wind Energy Association	Kevin Rackstraw	Paul Shapiro	\$159,972	October 1, 1995 - September 30, 1997	Highlighted

30	R826165	Spouted Bed Electrolytic Recovery of Metals for Source Reduction and Waste Minimization	Brown University	Joseph M. Calo	Paul Shapiro	\$291,499	January 14, 1998 - January 13, 2001	Highlighted
31	R827719	Ferric Oxide/Alkali Metal Oxide Induced Oxidation of CHCs in Polluted Gas Streams	LSU	Barry Dellinger, Ph.D.	Paul Shapiro	none	September 1, 1999 - August 31, 2002	Highlighted
32	R824732	Intelligent Decision Making and System Development for Comprehensive Waste Minimization in the Electroplating Industry	Wayne State University	Yinlun Huang	Barbara Karn	\$100,000	September 1, 1995 - September 30, 1997	Highlighted
33	094LSU0410	Pollution Prevention by Process Modification Using On-Line Optimization	Louisiana State University	Ralph W. Pike	none	none	none	Highlighted
34	R828128	Designing for Environment: A Multi-objective Optimization Framework Under Uncertainty	Environmental Institute, Carnegie Mellon University	Urmila Diwekar	Barbara Karn	\$274,424	April 1, 2000 - March 31, 2003	Highlighted
35	R825370C005	Integrating Models for Predicting Pollution Treatment with Models for the Manufacturing Process	Michigan Technological University	J.R. Mihelcic, A. S. Mayer, D. W. Hand, C.C. Nesbitt, D. R. Lueking, and T. N. Rogers	none	none	none	Highlighted
36	none	Developing a Consensus and Training on Pollution Prevention Metrics	Northeast Waste Management Officials' Association and , the New Jersey Technical Assistance Program	Terri Goldberg, Marcus Healey	none	none	none	Highlighted
37	R827227	Development of Novel Bioadsorbents for Heavy Metal Removal	University of California, Riverside	Wilfred Chen, Ashok Mulchandani, and Rajesh Mehra	S. Bala Krishnan	\$360,818	December 1, 1998 - November 30, 2001	Highlighted

38	R829440	Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance?	University of North Carolina at Chapel Hill, Chapel Hill, NC	Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral	Susan Carrillo	\$340,000	November 19, 2001 - November 18, 2003	Highlighted
39	R827121	Solvent-less, Electron Beam-Cured Vinyl Ether Coating Formulations for Flexible Magnetic Media Manufacture	The University of Alabama	David E. Nikles	Paul Shapiro	\$328,209	October 1, 1998 - September 30, 2001	Highlighted
40	R828721	Evaluating the Dissemination and Impact of Toxics Release Inventory Data	North Carolina State University	Michael Vasu (vasu@social.chass.ncsu.edu), Mark Atlas, and Michael Dimock	Susan Carrillo	\$196,197	December 1, 2000 - November 30, 2002	Highlighted
41	R826731	Continuous Micro-Sorting of Complex Waste Plastics Particle Mixtures Via Liquid-Fluidized Bed Classification (LFBC) for Waste Minimization and Recycling	Brown University, Providence, RI	J.M. Calo, Professor, Chemical Engineering Program, Division of Engineering	Barbara Karn	\$265,000	February 1, 1999 - March 31, 2002	Highlighted
42	R825370C042	Environmentally Conscious Design for Construction	Michigan Technological University and The M.W. Kellogg Company	R.M. Patty, J.W. Sutherland, C.R. Baillod, D.W. Hertz and D. Grandy	none	none	none	Highlighted
43	R828257	Investigation of Room Temperature Ionic Liquids as Environmentally Benign Solvents for Industrial Separations (TSE99-A)	The University of Alabama, Tuscaloosa, AL; The University of Florida, Gainesville, FL	Robin D. Rogers, The University of Alabama (PI); Alan R. Katritzky, The University of Florida (Co-PI)	Barbara Karn	\$375,000	May 1, 2000 - April 30, 2003	Highlighted
44	R825370C023	Amphiphilic Solvents for Pollution Prevention	University of Minnesota	E.L. Cussler	none	none	none	Highlighted
45	R825370C019	Selection of Processes to Support Environmentally Conscious Design and Manufacturing	Michigan Technological University	W.W. Olson and J.W. Sutherland	none	none	none	Highlighted
46	R828210	Wastewater Reuse and Zero Discharge Cycles in Process Plants	University of Oklahoma	Prof. Miguel Bagajewicz, Prof. Mariano Savelski	Barbara Karn	\$99,988	June 15, 2000 - June 14, 2001	Highlighted

47	R828207	Computational Requirements of Statistical Learning: Ideal Decision-Making for More Sustainable Urban Environments.	Georgia Institute of Technology	Victoria C. P. Chen, Michael E. Chang, Eva K. Y. Lee, Ellis L. Johnson	Barbara Karn	\$335,000	July 1, 2000 to June 30, 2003	Highlighted
48	none	Novel Approaches For Prevention And Control For Trace Metals	University of North Dakota	Michael D. Mann, John H. Pavlish, Ronald C. Timpe, Steven Sternberg, Kaleb Keuther, Eugene Kozliak	none	none	ending date	Highlighted
49	none	Technology Commercialization And Education	University of North Dakota - EERC	John H. Pavlish, Constance Y. Wixo, Cynthia M. Purfeerst, and Steven A. Benson	none	\$200,000	9/30/98 ending date	Highlighted

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Tabular Query Results of NCER Program and Solicitation Information

10 Abstracts are listed

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R828828	Shaping Corporate Environmental Behavior and Performance: The Impact of Enforcement and Non-Enforcement Tools	University of Kansas, Lawrence, KS	Dietrich Earnhart (earnhart@ukans.edu), University of Kansas, Dept. of Economics / Environmental Studies Program; Donald Haider-Markel, University of Kansas, Dept. of Political Science, Policy Research Institute; Tatsui Ebihara; University of Kansas, Dept	Susan Carrillo	\$341,234	March 12, 2001 - March 11, 2004	Highlighted

2	R828826	Organizational Structures, Citizen Participation, and Corporate Environmental Performance	University of Arizona, Tucson, AZ	Dr. Don Grant (grantd@u.arizona.edu)	Susan Carrillo	\$35,123	June 1, 2001 - May 31, 2002	Highlighted
3	R829440	Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance?	University of North Carolina at Chapel Hill, Chapel Hill, NC	Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral	Susan Carrillo	\$340,000	November 19, 2001 - November 18, 2003	Highlighted
4	R828827	Tracking Deterrent Messages in Environmental Enforcement	University of California at Berkeley, Berkeley, CA	Principal Investigator: Professor Robert Kagan (rak@uclink4.berkeley.edu), Professor of Political Science and Law at the University of California, Berkeley. Co-Principal Investigators: Professor Neil Gunningham, Director of the Australian Center for Envir	Susan Carrillo	\$349,981	June 6, 2001 - May 31, 2003	Highlighted
5	R828825	Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution	University of Washington	Peter J. May (pmay@u.washington.edu)	Susan Carrillo	\$227,303	June 16, 2001 - June 15, 2004	Highlighted
6	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	University of Illinois at Urbana-Champaign	Madhu Khanna, Deborah Thurston	Susan Carrillo	\$241,516	December 15, 1999 - December 15, 2001	Highlighted

7	R828824	Determinants of Environmental Compliance: Plant, Firm, and Enforcement Factors	Clark University, Worcester, MS	Wayne B. Gray, Principal Investigator (wgray@clarku.edu) and Ronald J. Shadbegian, Co-Principal Investigator	Susan Carrillo	\$276,883	May 1, 2001 - April 30, 2004	Highlighted
8	R824748	Regulation, Business, and Sustainable Development: The Management of Environmentally Conscious Technological Innovation Under Alternative Market Conditions	University of Oklahoma	Mark Sharfman, Mark Meo and Rex Ellington	Paul Shapiro	\$244,955	October 1, 1995 - September 30, 1997	Highlighted
9	none	Nickel Speciation Of Residual Oil Ash	University of North Dakota EERC, University of Kentucky, University of Louisville	Kevin C. Galbreath (EERC), Christopher J. Zygarlicke (EERC), Donald L. Toman (EERC), Frank E. Huggins (University of Kentucky), Gerald P. Huffman (University of Kentucky), and John Wong (University of Louisville)	none	\$10,000	9/30/98 ending date	Highlighted
10	none	The Use of Environmental Information by Place-Based Environmental Groups	none	Susan Charnley	none	none	none	Highlighted

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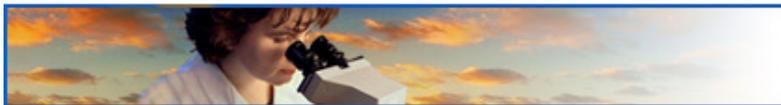
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7 Abstracts are listed
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air">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R82-1335	Estimation of Health Effects and Values for Air Quality Improvements: the Cases of Taiwan and Los Angeles	Resources for the Future	Alan Krupnick	none	\$161,517	2 years	Highlighted
2	R825824	A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains	University of New Hampshire, University of Massachusetts, Appalachian Mountain Club	John M. Halstead, Thomas H. Stevens, L. Bruce Hill	Matthew Clark	\$159,071	October 1, 1997 - September 30, 1999	Highlighted

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3	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
4	R826609	The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies	Duke University	V. Kerry Smith and Holger Sieg	Matthew Clark	\$199,948	September 1, 1998 - August 31, 2001	Highlighted
5	R825313	Effective Environmental Policy in the Presence of Distorting Taxes	Resources for the Future; Stanford University	Dallas Burtraw, Ian Parry, Lawrence Goulder	Matthew Clark	\$200,000	October 1, 1996 - September 30, 1998	Highlighted
6	R826618	Environmental Labeling of Electricity: Label Design and Performance	University of Maine	Mario F. Teisl	Matthew Clark	\$72,573	September 1, 1998 - August 31, 2000	Highlighted
7	R824688	Can Contingent Valuation Measure Passive-Use Values?	Cornell University; Princeton University; UCLA; University of Washington; University of Colorado	William Schulze, Gregory Poe, Daniel Kahneman, Trudy Cameron, Gardner Brown, and Gary McClelland	Matthew Clark	\$381,150	October 1, 1995 - September 30, 1997	Highlighted

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 (waste land) ">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R824766	Integrated Ecological Economic Modeling and Valuation of Watersheds	University of Maryland	Robert Costanza	Barbara Levinson	\$1,000,000	November 1, 1995 - November 1, 1998	Highlighted
2	R825309	Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model	Clark University	Jacqueline Geoghegan	Matthew Clark	\$104,685	January 1, 1997 - December 31, 1998	Highlighted

3	R829508	Measuring Economics Benefits for Amenity Consequences of Land Cover Changes	Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC	V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf	Matthew Clark	\$299,855	October 1, 2001 - September 30, 2004	Highlighted
4	R827921	Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities	Resources for the Future	James Boyd	Matthew Clark	\$273,000	November 1, 1999 û December 31, 2001	Highlighted
5	R825310	Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values	Iowa State University	Joseph A. Herriges and Catherine L. Kling	Matthew Clark	\$210,199	October 1, 1996 - September 30, 1998	Highlighted
6	R825307	Stated Preference Valuation Using Real Money for Real Forested Wetlands	University of Rhode Island	Stephen K. Swallow and Peter Paton	Matthew Clark	\$165,081	October 15, 1996 - October 14, 1998	Highlighted
7	R826619	Land and Management with Biological and Economic Objectives	Oregon State University	Claire Montgomery, Jeffrey L. Arthur, Stephen Polasky	Matthew Clark	\$131,089	October 1, 1998 - December 31, 2000	Highlighted
8	R826616	Estimating the Cost of Carbon Sequestration in Global Forests	The Ohio State University	Brent Sohngen, Robert Mendelsohn, Roger Sedjo	Matthew Clark	\$87,401	September 1, 1998 - August 31, 2000	Highlighted
9	R826617	The Impact of Farmland Preservation Programs	University of Maryland	Nancy E. Bockstael and Cynthia J. Nickerson	Matthew Clark	\$80,860	October 1, 1998 - September 30, 1999	Highlighted
10	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	University of Illinois at Urbana-Champaign	Madhu Khanna, Deborah Thurston	Susan Carrillo	\$241,516	December 15, 1999 û December 15, 2001	Highlighted
11	R825995	Stigma of Environmental Damage on Residential Property Values	University of California, Berkeley	Gordon C. Rausser	Matthew Clark	\$42,260	October 1, 1997 August 31, 1998	Highlighted

12	R825822	Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds	University of Oregon	David Hulse	Matthew Clark	\$320,000	October 1, 1997 - September 30, 2000	Highlighted
13	R825759	Risk Based Urban Watershed Management-Integration of Water Quality and Flood Control Objectives	Marquette University	Vladimir Novotny, Robert Griffin, David Cloark	Gina Perovich	\$880,355	October 1, 1997 - September 30, 2000, No Cost Extension through September 30, 2001	Highlighted
14	R825996	Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways	Johns Hopkins University	Charles ReVelle, John Boland, Stephanie Snyder, Justin Williams	Matthew Clark	\$227,858	October 1, 1997 - September 30, 1999	Highlighted
15	R829384	Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools	University of Rhode Island, So. Kingston, RI	Stephen K. Swallow (swallow@uri.edu) and Peter Paton	Matthew Clark	\$200,017	January, 2002 - December, 2003	Highlighted
16	R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services	University of California, Davis	Marca Weinberg; James Quinn	Matthew Clark	\$125,000	October 01, 1999 - September 30, 2002	Highlighted

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Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R824705	Valuing the Stock and Flow of Mineral and Renewable Assets in National Income Accounting	Colorado School of Mines	Graham Davis	Matthew Clark	\$101,000	October 1, 1995 - September 30, 1997	Highlighted

2	R824711	Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study	Resources for the Future, University of Maryland and World Bank, University of Colorado, University of Michigan	Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli	Matthew Clark	\$114,822	October 1, 1995 - September 30, 1997	Highlighted
3	R824310	How People Respond to Contingent Valuation Questions	Duke University, Research Triangle Institute, University of Texas	John W. Payne, William H. Desvougues, David A. Schkade	Matthew Clark	\$238,510	October 1, 1995 - April 30, 1998	Highlighted
4	R825824	A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains	University of New Hampshire, University of Massachusetts, Appalachian Mountain Club	John M. Halstead, Thomas H. Stevens, L. Bruce Hill	Matthew Clark	\$159,071	October 1, 1997 - September 30, 1999	Highlighted
5	R825310	Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values	Iowa State University	Joseph A. Herriges and Catherine L. Kling	Matthew Clark	\$210,199	October 1, 1996 - September 30, 1998	Highlighted
6	R824709	Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context	University of Rhode Island	James J. Opaluch and Stephen K. Swallow	Matthew Clark	\$125,972	October 1995 - September 1997	Highlighted
7	R824710	Valuing Environmental Damages with Stated Preference Methods: New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods	Georgia State University	Ronald G. Cummings, Laura L. Osborne, James Pate, and Paul Brewer	Matthew Clark	\$113,856	November 1995 - October 1996	Highlighted

8	R826612	Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices	American University (1), Stanford University (2), University of Maryland (3), Southern Illinois University (4), Indiana University (5)	James Salzman (1), Paul Ehrlich (2), Gretchen Daily (2), Herman Daly (3), Dennis King (3), J.B. Ruhl (4), Robert Fischman (5),	Matthew Clark	\$163,265	June 1, 1998 - December 31, 1999	Highlighted
9	none	Aggregative and Deliberative Contexts for Valuation: A Philosophical Contribution to Experimental Research in Environmental Decision Making	U of MD College Park	Mark H Sagoff, David A Crocker, Paul C Stern	Deborah Hanlon	\$158,043	January 1, 1997 - December 31, 1998	Highlighted
10	R825307	Stated Preference Valuation Using Real Money for Real Forested Wetlands	University of Rhode Island	Stephen K. Swallow and Peter Paton	Matthew Clark	\$165,081	October 15, 1996 - October 14, 1998	Highlighted
11	R828717	Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay	University of Southern Mississippi, Hattiesburg, MS; University of Wyoming, Laramie, WY	Mark Dickie (mark.dickey@bus.edu), University of Southern Mississippi; Shelby Gerking, University of Wyoming	Matthew Clark	\$347,373	January 1, 2001 - December 31, 2003	Highlighted
12	R824886	Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys	Colorado State University	John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange	Matthew Clark	\$114,998	July 1996 - April 1999	Highlighted
13	R824699	Innovation in the Valuation of Ecosystems A Forest Application	Vanderbilt University; Oak Ridge National Laboratory	Clifford Russell and Virginia Dale	Matthew Clark	\$139,327	October 1995 - September 1997	Highlighted
14	none	Distinguishing Values from Valuation in a Policy-Relevant Manner	Decision Sci Res Inst	Theresa Satterfield, Stephen Johnson	Deborah Hanlon	\$150,000	August 1, 1996 - July 31, 1998	Highlighted

15	R824687	Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation	Duke University, Nicholas School of the Environment; Research Triangle Institute (North Carolina); Duke University, Fuqua School of Business	George Van Houtven and Joel Huber	Matthew Clark	\$51,402	October 1995 - April 1997	Highlighted
16	R825312	Valuation of Risks to Human Health: Insensitivity to Magnitude?	Harvard College; University of California, Berkeley	James K. Hammitt; John Graham, Michael Hanemann	Matthew Clark	\$377,584	October 15, 1996 - October 14, 1999	Highlighted
17	R827922	Web-Based Methods for Valuing Wetland Services	Michigan State University	John P. Hoehn, Frank Lupi, Michael D. Kaplowitz	Matthew Clark	\$227,758	October 1, 1999 ù September 30, 2002	Highlighted
18	GF-95-00918	Development of an Incentive Compatible Mechanism to Assist in Environmental Remediation Site Prioritization and Allocation of Other Public Goods	University of Colorado	Katherine S. Carson	Virginia Broadway	\$25,928	9/1/95	Highlighted
19	R826615	An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand	Iowa State University	Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf	Matthew Clark	\$134,759	September 1, 1998 August 31, 2000	Highlighted
20	R824693	Social Psychology of Stated Preference	George Mason University (1), National Research Council (2)	(2)	Matthew Clark	none	October 1, 1995 - December 31, 1999	Highlighted
21	R824698	Comparative Studies of Approaches to Eliciting Economic Values	University of California, San Diego	Richard T. Carson, Theodore Groves, and Mark J. Machina	Matthew Clark	\$265,000	October 1, 1995 - September 30, 1997	Highlighted
22	R825308	Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework	Research Triangle Institute; Duke University	George Van Houtven and V. Kerry Smith	Matthew Clark	\$170,971	October 1, 1996 - September 30, 1997	Highlighted

23	R824766	Integrated Ecological Economic Modeling and Valuation of Watersheds	University of Maryland	Robert Costanza	Barbara Levinson	\$1,000,000	November 1, 1995 - November 1, 1998	Highlighted
24	R824688	Can Contingent Valuation Measure Passive-Use Values?	Cornell University; Princeton University; UCLA; University of Washington; University of Colorado	William Schulze, Gregory Poe, Daniel Kahneman, Trudy Cameron, Gardner Brown, and Gary McClelland	Matthew Clark	\$381,150	October 1, 1995 - September 30, 1997	Highlighted
25	R824671	Environmental Values and National Economic Accounts: A Theoretical Inquiry	University of Colorado, Boulder	Nicholas E. Flores	Matthew Clark	\$43,395	October 1995 - June 1997	Highlighted
26	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
27	R829508	Measuring Economics Benefits for Amenity Consequences of Land Cover Changes	Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC	V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf	Matthew Clark	\$299,855	October 1, 2001 - September 30, 2004	Highlighted
28	R823362	Robustness of Welfare Estimates for Environmental Goods from Discrete Choice Recreational Demand Models	Iowa State University	Joseph Herriges and Catherine Kling	Matthew Clark	\$87,912	September 8, 1995 - September 7, 1997	Highlighted
29	R825313	Effective Environmental Policy in the Presence of Distorting Taxes	Resources for the Future; Stanford University	Dallas Burtraw, Ian Parry, Lawrence Goulder	Matthew Clark	\$200,000	October 1, 1996 - September 30, 1998	Highlighted
30	R827921	Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities	Resources for the Future	James Boyd	Matthew Clark	\$273,000	November 1, 1999 - December 31, 2001	Highlighted

31	R825759	Risk Based Urban Watershed Management-Integration of Water Quality and Flood Control Objectives	Marquette University	Vladimir Novotny, Robert Griffin, David Cloark	Gina Perovich	\$880,355	October 1, 1997 - September 30, 2000, No Cost Extension through September 30, 2001	Highlighted
32	R824679	Preference Formation and Elicitation in Valuing Non-Market Goods	The University of New Mexico	David S. Brookshire, Robert Berrens, Philip Ganderton, and Michael McKee of Economics, Hank Jenkins-Smith of the Institute for Public Policy, and Hillard Kaplan of Anthropology	Matthew Clark	\$184,998.00	October 1, 1995 - September 30, 1997	Highlighted
33	R824707	Deriving Biodiversity Option Value Within a Model of Biotechnology Research and Development	University of California at Berkeley	Gordon C. Rausser	Matthew Clark	\$80,000	October 1, 1995 - September 30, 1997	Highlighted
34	none	Economic Effects of Multiple Stresses	Center for Ecological Health Research (Cal-Davis)	James Wilen	none	none	6/30/95 ending date	Highlighted
35	R826619	Land and Management with Biological and Economic Objectives	Oregon State University	Claire Montgomery, Jeffrey L. Arthur, Stephen Polasky	Matthew Clark	\$131,089	October 1, 1998 - December 31, 2000	Highlighted
36	R826616	Estimating the Cost of Carbon Sequestration in Global Forests	The Ohio State University	Brent Sohngen, Robert Mendelsohn, Roger Sedjo	Matthew Clark	\$87,401	September 1, 1998 - August 31, 2000	Highlighted
37	R826610	Environmental Policy and Endogenous Technical Change: A Theoretical & Empirical Analysis	University of Rhode Island ¹ , Woods Hole Oceanographic Institute ²	James J. Opaluch ¹ , Di Jin ² and Thomas A. Grigalunas ¹	Matthew Clark	\$325,000	October 1, 1998 - September 30, 2001	Highlighted
38	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	University of Illinois at Urbana-Champaign	Madhu Khanna, Deborah Thurston	Susan Carrillo	\$241,516	December 15, 1999 - December 15, 2001	Highlighted

39	R825822	Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds	University of Oregon	David Hulse	Matthew Clark	\$320,000	October 1, 1997 - September 30, 2000	Highlighted
40	R825996	Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways	Johns Hopkins University	Charles ReVelle, John Boland, Stephanie Snyder, Justin Williams	Matthew Clark	\$227,858	October 1, 1997 - September 30, 1999	Highlighted
41	R828716	Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 -- Theory)	University of Wyoming, Laramie, WY	Thomas D. Crocker (tcrocker@uwyo.edu), Mark D. Agee, and Jason F. Shogren	Matthew Clark	\$103,495	December 1, 2000 - November 30, 2003	Highlighted
42	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	Matthew Clark	\$205,000	October 1, 1997 - September 30, 2000	Highlighted
43	R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services	University of California, Davis	Marca Weinberg; James Quinn	Matthew Clark	\$125,000	October 01, 1999 û September 30, 2002	Highlighted
44	R827920	Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks	Carnegie Mellon University	Granger Morgan, Michael Dekay, Paul Fischbeck	Susan Carrillo	\$235,504	December 15, 1999 û December 14, 2001	Highlighted
45	R827918	Voluntary Environmental Standards - Furthering Moral Suasion While Preventing Moral Hazard	Stern School of Business û New York University	Andrew King, Roy R. Radner, James Myles Shaver	Matthew Clark	\$236,390	November, 1999 û October, 2001	Highlighted

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eco* <and> (willingness to pay <or> "valuation")<and> water water">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R824766	Integrated Ecological Economic Modeling and Valuation of Watersheds	University of Maryland	Robert Costanza	Barbara Levinson	\$1,000,000	November 1, 1995 - November 1, 1998	Highlighted
2	R829508	Measuring Economics Benefits for Amenity Consequences of Land Cover Changes	Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC	V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf	Matthew Clark	\$299,855	October 1, 2001 - September 30, 2004	Highlighted

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3	R825759	Risk Based Urban Watershed Management-Integration of Water Quality and Flood Control Objectives	Marquette University	Vladimir Novotny, Robert Griffin, David Cloark	Gina Perovich	\$880,355	October 1, 1997 - September 30, 2000, No Cost Extension through September 30, 2001	Highlighted
4	R824886	Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys	Colorado State University	John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange	Matthew Clark	\$114,998	July 1996 - April 1999	Highlighted
5	R825309	Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model	Clark University	Jacqueline Geoghegan	Matthew Clark	\$104,685	January 1, 1997 - December 31, 1998	Highlighted
6	R827972	Over-compliance in Point Source Water Pollution	University of Maryland	John Horowitz	Matthew Clark	\$59,316	December 15, 1999 - December 15, 2000	Highlighted
7	none	Economic Effects of Multiple Stresses	Center for Ecological Health Research (Cal-Davis)	James Wilen	none	none	6/30/95 ending date	Highlighted
8	R825822	Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds	University of Oregon	David Hulse	Matthew Clark	\$320,000	October 1, 1997 - September 30, 2000	Highlighted
9	R826615	An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand	Iowa State University	Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf	Matthew Clark	\$134,759	September 1, 1998 - August 31, 2000	Highlighted

10	R828070	An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande Basin	University of New Mexico	Olen Paul Matthews, David Brookshire, Michael Campana, Louis Scuderi, Brad Cullen, Kirk Gregory, Seth Snell, Janie Chermak, Kate Krause	Bill Stelz	\$409,977	March 1, 2000 - February 28, 2003	Highlighted
11	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	Matthew Clark	\$205,000	October 1, 1997 - September 30, 2000	Highlighted
12	R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services	University of California, Davis	Marca Weinberg; James Quinn	Matthew Clark	\$125,000	October 01, 1999 - September 30, 2002	Highlighted
13	R827921	Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities	Resources for the Future	James Boyd	Matthew Clark	\$273,000	November 1, 1999 - December 31, 2001	Highlighted

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2 Abstracts are listed

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?

1	R82-1335	Estimation of Health Effects and Values for Air Quality Improvements: the Cases of Taiwan and Los Angeles	Resources for the Future	Alan Krupnick	none	\$161,517	2 years	Highlighted
2	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted

Collections that were searched are:

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5 Abstracts are listed

Your Query was:

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R825309	Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model	Clark University	Jacqueline Geoghegan	Matthew Clark	\$104,685	January 1, 1997 - December 31, 1998	Highlighted

2	R826617	The Impact of Farmland Preservation Programs	University of Maryland	Nancy E. Bockstael and Cynthia J. Nickerson	Matthew Clark	\$80,860	October 1, 1998 - September 30, 1999	Highlighted
3	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	University of Illinois at Urbana-Champaign	Madhu Khanna, Deborah Thurston	Susan Carrillo	\$241,516	December 15, 1999 - December 15, 2001	Highlighted
4	R825995	Stigma of Environmental Damage on Residential Property Values	University of California, Berkeley	Gordon C. Rausser	Matthew Clark	\$42,260	October 1, 1997 - August 31, 1998	Highlighted
5	R825827	Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach	University of Utah	Carol M. Werner	Matthew Clark	\$128,211	October 1, 1997 - December 31, 1998	Highlighted

Collections that were searched are:

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Query was:

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14 Abstracts are listed

Your Query was:

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(method* theor*) ("Economic Effects of Multiple Stresses")">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?

1	R828717	Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay	University of Southern Mississippi, Hattiesburg, MS; University of Wyoming, Laramie, WY	Mark Dickie (mark.dickey@bus.edu), University of Southern Mississippi; Shelby Gerking, University of Wyoming	Matthew Clark	\$347,373	January 1, 2001 - December 31, 2003	Highlighted
2	R825312	Valuation of Risks to Human Health: Insensitivity to Magnitude?	Harvard College; University of California, Berkeley	James K. Hammitt; John Graham, Michael Hanemann	Matthew Clark	\$377,584	October 15, 1996 - October 14, 1999	Highlighted
3	R824706	Eliciting Environmental Values A Constructivist Approach	Carnegie Mellon University	Baruch Fischhoff	Matthew Clark	\$99,987	none	Highlighted
4	R824711	Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study	Resources for the Future, University of Maryland and World Bank, University of Colorado, University of Michigan	Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli	Matthew Clark	\$114,822	October 1, 1995 - September 30, 1997	Highlighted
5	R826611	Assessing Preferences for Environmental Decisions with Long-Term Consequences	University of California, Irvine ¹ , Decision Insights, Inc. ²	L. Robin Keller ¹ , Thomas Eppel ²	Matthew Clark	\$181,851	July 1, 1998 - June 30, 2000	Highlighted
6	R825308	Valuing Reductions in Environmental Sources of Infertility Risk Using the Efficient Household Framework	Research Triangle Institute; Duke University	George Van Houtven and V. Kerry Smith	Matthew Clark	\$170,971	October 1, 1996 - September 30, 1997	Highlighted

7	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	University of Illinois at Urbana-Champaign	Madhu Khanna, Deborah Thurston	Susan Carrillo	\$241,516	December 15, 1999 û December 15, 2001	Highlighted
8	R826608	The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments	Resources for the Future ¹ , University of Maryland & World Bank ² , University of Colorado ³ , University of Michigan ⁴	Alan J. Krupnick, Maureen Cropper ² , Anna Alberini ³ , Robert Belli ⁴	Matthew Clark	\$270,000	October 1, 1998 - September 30, 2000	Highlighted
9	R827931	Understanding Observed Differences in Time-Preference Rates	Decision Sciences Research Institute	Robin Gregory, PI; Paul Slovic, Co-PI	Matthew Clark	\$228,463	November 30, 1999 û November 29, 2001	Highlighted
10	R828716	Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory)	University of Wyoming, Laramie, WY	Thomas D. Crocker (tcrocker@uwyo.edu), Mark D. Agee, and Jason F. Shogren	Matthew Clark	\$103,495	December 1, 2000 - November 30, 2003	Highlighted
11	R825827	Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach	University of Utah	Carol M. Werner	Matthew Clark	\$128,211	October 1, 1997 - December 31, 1998	Highlighted
12	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	Matthew Clark	\$205,000	October 1, 1997 - September 30, 2000	Highlighted

13	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jihh-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
14	R827920	Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks	Carnegie Mellon University	Granger Morgan, Michael Dekay, Paul Fischbeck	Susan Carrillo	\$235,504	December 15, 1999 - December 14, 2001	Highlighted

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2 Abstracts are listed

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water ("Economic Effects of Multiple Stresses" R824706) ">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R825309	Ecosystem Valuation: Policy Applications for the Patuxent Watershed Ecological-Economics Model	Clark University	Jacqueline Geoghegan	Matthew Clark	\$104,685	January 1, 1997 - December 31, 1998	Highlighted

2	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	Matthew Clark	\$205,000	October 1, 1997 - September 30, 2000	Highlighted
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7 Abstracts are listed

Your Query was:

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R828630	Evaluation of Phase II Compliance with Title IV of the 1990 Clean Air Act Amendments	Massachusetts Institute of Technology	A. Denny Ellerman (ellerman@mit.edu), Paul L. Joskow, Richard Schmalensee, Juan Pablo Montero	Matthew Clark	\$289,477	October 1, 2000 - March 31, 2003	Highlighted

2	R824753	Assessing Compliance Burden from Implementation of CAAA Title V Permitting Rules and Regulations	Georgia Institute of Technology	Barry Bozeman	Matthew Clark	\$240,000	October 1995 - September 30, 1997	Highlighted
3	R828628	Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances	Resources for the Future	Dallas Burtraw (Burtraw@rff.org), Carolyn Fischer, Karen Palmer, Billy Pizer	Matthew Clark	\$251,000	October 1, 2000 - September 30, 2002	Highlighted
4	R828631	Multi-Lateral Emissions Trading: Political Economy and Firm Response	Carnegie Mellon University	Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow	Matthew Clark	\$149,366	September 1, 2000 - August 31, 2002	Highlighted
5	R828626	Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare	University of Michigan	Michael R. Moore (micmoore@umich.edu) and Matthew J. Kotchen	Matthew Clark	\$68,042	January 2001 - December, 2002	Highlighted

6	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jhjh-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
7	none	The Use of Environmental Information by Place-Based Environmental Groups	none	Susan Charnley	none	none	none	Highlighted

Collections that were searched are:

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Query was:

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Your Query was:

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R824750	Environmental Technology Initiative '95	Maryland Center for Environmental Training, Charles County Community College	Jake Bair	Matthew Clark	\$119,824	October 1, 1995 - September 30, 1997	Highlighted

2	R828627	Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements	The Ohio State University	Brent Sohngen (Sohngen.1@osu.edu) and Alan Randall	Matthew Clark	\$200,291	September 1, 2000 - August 30, 2002	Highlighted
3	R824738	Demanufacturing Partnership Program Located at Rutgers University	Rutgers University, Newark	Joan Mahon	Paul Shapiro	\$200,000	October 1, 1995 - September 30, 1997	Highlighted
4	R829384	Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools	University of Rhode Island, So. Kingston, RI	Stephen K. Swallow (swallow@uri.edu) and Peter Paton	Matthew Clark	\$200,017	January, 2002 - December, 2003	Highlighted
5	R825797	Ecological, Demographic, and Economic Evaluation of Opportunities and Constraints for Riparian Restoration	Oregon State University, University of Oregon, ECO Northwest, EPA	S.V. Gregory, D.W. Hulse, E. Whitelaw, Dixon Landers	Dale Manty	\$899,999	June 1, 1998 - May 31, 2001	Highlighted

6	R828629	Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees	University of Rhode Island	Stephen K. Swallow, Professor (swallow@uri.edu)	Matthew Clark	\$103,821	January 2001 - February 2003	Highlighted
7	none	The Use of Environmental Information by Place-Based Environmental Groups	none	Susan Charnley	none	none	none	Highlighted

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transfer*)) (theor* method*)(R828630) ">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R825286	Effectiveness of Regulatory Incentives for Sediment Pollution Prevention: Evaluation Through Policy Analysis and Biomonitoring	University of North Carolina	Seth Reice and Richard N. Andrews	Gina Perovich	\$556,981	October 15, 1996 - October 14, 1999	Highlighted

2	R826154	The Economics of Tailored Regulation and the Implications for Project XL	Resources for the Future	Alan J. Krupnick, Allen Blackman and James Boyd	Matthew Clark	\$140,000	October 1, 1997 - September 30, 1999	Highlighted
3	R828631	Multi-Lateral Emissions Trading: Political Economy and Firm Response	Carnegie Mellon University	Alex Farrell (afarrell@andrew.cmu.edu), Hadi Dowlatabadi, Dennis Epple, Scott Farrow	Matthew Clark	\$149,366	September 1, 2000 - August 31, 2002	Highlighted
4	R829440	Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance?	University of North Carolina at Chapel Hill, Chapel Hill, NC	Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral	Susan Carrillo	\$340,000	November 19, 2001 - November 18, 2003	Highlighted
5	U91-5395	Cost-Sharing Arrangements to Control Nonpoint Source Pollution (NPSP)	University of Wisconsin - Madison, Department of Agricultural and Applied Economics	Kenneth A. Baerenklau	Jason Edwards	34,000	9/1/98	Highlighted
6	GF-95-00795	Response to Water Protection Rule Changes in the Oregon Forest Practices Act: Landowner/Operator Opinions and Streamside Conditions	Oregon State University	Anne Hairston	Virginia Broadway	\$31,246	7/1/95	Highlighted
7	R828628	Efficiency and Distributional Consequences of the Allocation of Tradable Emission Allowances	Resources for the Future	Dallas Burtraw (Burtraw@rff.org), Carolyn Fischer, Karen Palmer, Billy Pizer	Matthew Clark	\$251,000	October 1, 2000 - September 30, 2002	Highlighted

8	R824748	Regulation, Business, and Sustainable Development: The Management of Environmentally Conscious Technological Innovation Under Alternative Market Conditions	University of Oklahoma	Mark Sharfman, Mark Meo and Rex Ellington	Paul Shapiro	\$244,955	October 1, 1995 - September 30, 1997	Highlighted
9	R828626	Introducing Markets for Green Products: Product Demand, Environmental Quality & Economic Welfare	University of Michigan	Michael R. Moore (micmoore@umich.edu) and Matthew J. Kotchen	Matthew Clark	\$68,042	January 2001 - December, 2002	Highlighted
10	R828629	Designing Incentives that Strengthen Local Capacity for Land Development with Open Space and Healthy Ecosystems: Environmental Impact Fees	University of Rhode Island	Stephen K. Swallow, Professor (swallow@uri.edu)	Matthew Clark	\$103,821	January 2001 - February 2003	Highlighted
11	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
12	none	The Use of Environmental Information by Place-Based Environmental Groups	none	Susan Charnley	none	none	none	Highlighted

Collections that were searched are:

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Tabular Query Results of NCER Program and Solicitation Information

5 Abstracts are listed

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Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R825286	Effectiveness of Regulatory Incentives for Sediment Pollution Prevention: Evaluation Through Policy Analysis and Biomonitoring	University of North Carolina	Seth Reice and Richard N. Andrews	Gina Perovich	\$556,981	October 15, 1996 - October 14, 1999	Highlighted

2	R828627	Testing the Potential to Implement Collective Enforcement Agreements in Point-Nonpoint Source Pollution Trading and Voluntary Incentive Agreements	The Ohio State University	Brent Sohngen (Sohngen.1@osu.edu) and Alan Randall	Matthew Clark	\$200,291	September 1, 2000 - August 30, 2002	Highlighted
3	GF-95-00795	Response to Water Protection Rule Changes in the Oregon Forest Practices Act: Landowner/Operator Opinions and Streamside Conditions	Oregon State University	Anne Hairston	Virginia Broadway	\$31,246	7/1/95	Highlighted
4	R828825	Normative, Social, and Calculated Motivations for Compliance: Marine Facilities and Water Pollution	University of Washington	Peter J. May (pmay@u.washington.edu)	Susan Carrillo	\$227,303	June 16, 2001 - June 15, 2004	Highlighted
5	none	The Use of Environmental Information by Place-Based Environmental Groups	none	Susan Charnley	none	none	none	Highlighted

Collections that were searched are:

Research Center Research Projects
 Fellowship Research Projects
 Grants Research Projects
 Small Business Innovation Research Projects

Query was:

(market mechanisms <or> incentives <and> (compliance<or> transaction <or> cost savings <or> regulatory <or> trading <or> transfer*))<and> water

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9 Abstracts are listed

Your Query was:

(recreation <or> asthetics) <and> (willingness to pay <or> "valuation")

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R826615	An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand	Iowa State University	Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf	Matthew Clark	\$134,759	September 1, 1998 August 31, 2000	Highlighted

2	R829508	Measuring Economics Benefits for Amenity Consequences of Land Cover Changes	Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC	V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf	Matthew Clark	\$299,855	October 1, 2001 - September 30, 2004	Highlighted
3	R823362	Robustness of Welfare Estimates for Environmental Goods from Discrete Choice Recreational Demand Models	Iowa State University	Joseph Herriges and Catherine Kling	Matthew Clark	\$87,912	September 8, 1995 - September 7, 1997	Highlighted
4	none	Economic Effects of Multiple Stresses	Center for Ecological Health Research (Cal-Davis)	James Wilen	none	none	6/30/95 ending date	Highlighted
5	R825824	A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains	University of New Hampshire, University of Massachusetts, Appalachian Mountain Club	John M. Halstead, Thomas H. Stevens, L. Bruce Hill	Matthew Clark	\$159,071	October 1, 1997 - September 30, 1999	Highlighted

6	R824886	Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys	Colorado State University	John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange	Matthew Clark	\$114,998	July 1996 - April 1999	Highlighted
7	R827921	Indicators of Ecosystem Value: Deriving Units of Exchange for Habitat Trades, Banking, and Preservation Priorities	Resources for the Future	James Boyd	Matthew Clark	\$273,000	November 1, 1999 ù December 31, 2001	Highlighted
8	R825822	Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds	University of Oregon	David Hulse	Matthew Clark	\$320,000	October 1, 1997 - September 30, 2000	Highlighted

9	R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services	University of California, Davis	Marca Weinberg; James Quinn	Matthew Clark	\$125,000	October 01, 1999 ù September 30, 2002	Highlighted
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Collections that were searched are:

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 Small Business Innovation Research Projects

Query was:

(recreation <or> aesthetics) <and> (willingness to pay <or> "valuation")

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54 Abstracts are listed

Your Query was:

"valuation" <and> (information <or> communication <or> tech transfer <or> transfer <or> networking <or> questionnaire <or> survey)

(information communication tech transfer transfer networking questionnaire survey)">

Narrow your search results by entering additional terms:

Number	Identifier	Abstract	Institution	Principal Investigator	Grant Representative	Grant Amount	Proposed Start Date	Highlighted Result?
1	R824710	Valuing Environmental Damages with Stated Preference Methods: New Approaches that Yield Demonstrably Valid Values for Non-Priced Environmental Goods	Georgia State University	Ronald G. Cummings, Laura L. Osborne, James Pate, and Paul Brewer	Matthew Clark	\$113,856	November 1995 - October 1996	Highlighted

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2	R825310	Updating Prior Methods for Non-Market Valuation: A Bayesian Approach to Combining Disparate Sources of Environmental Values	Iowa State University	Joseph A. Herriges and Catherine L. Kling	Matthew Clark	\$210,199	October 1, 1996 - September 30, 1998	Highlighted
3	R824687	Improving Willingness-to-Accept Responses Using Alternate Forms of Compensation	Duke University, Nicholas School of the Environment; Research Triangle Institute (North Carolina); Duke University, Fuqua School of Business	George Van Houtven and Joel Huber	Matthew Clark	\$51,402	October 1995 - April 1997	Highlighted
4	R827922	Web-Based Methods for Valuing Wetland Services	Michigan State University	John P. Hoehn, Frank Lupi, Michael D. Kaplowitz	Matthew Clark	\$227,758	October 1, 1999 - September 30, 2002	Highlighted
5	GF-95-02252	Improving the External Validity of Contingent Valuation Methodology	Carnegie Mellon University	Edward Welch	Virginia Broadway	\$34,000	May 31, 1995	Highlighted
6	R825307	Stated Preference Valuation Using Real Money for Real Forested Wetlands	University of Rhode Island	Stephen K. Swallow and Peter Paton	Matthew Clark	\$165,081	October 15, 1996 - October 14, 1998	Highlighted
7	R827987	Optimal Experimental Design for Nonmarket Choice Experiments	Hubert H. Humphrey Institute of Public Affairs, University of Minnesota	Barbara J. Kanninen	Matthew Clark	\$61,014	January 1, 2000 - June 30, 2002	Highlighted
8	R825312	Valuation of Risks to Human Health: Insensitivity to Magnitude?	Harvard College; University of California, Berkeley	James K. Hammitt; John Graham, Michael Hanemann	Matthew Clark	\$377,584	October 15, 1996 - October 14, 1999	Highlighted
9	R824886	Measuring Societal Perceptions, Attitudes, and Economic Benefits of Ecological Integrity and Biodiversity by Extending Contingent Valuation Method Surveys	Colorado State University	John Loomis, Kurt Fausch, Alan Covich, Paula Kent, and Liz Strange	Matthew Clark	\$114,998	July 1996 - April 1999	Highlighted

10	R826608	The Valuation of Mortality Risk Reductions: Application of Two New Survey Instruments	Resources for the Future ¹ , University of Maryland & World Bank ² , University of Colorado ³ , University of Michigan ⁴	Alan J. Krupnick, Maureen Cropper ² , Anna Alberini ³ , Robert Belli ⁴	Matthew Clark	\$270,000	October 1, 1998 - September 30, 2000	Highlighted
11	R824699	Innovation in the Valuation of Ecosystems A Forest Application	Vanderbilt University; Oak Ridge National Laboratory	Clifford Russell and Virginia Dale	Matthew Clark	\$139,327	October 1995 - September 1997	Highlighted
12	none	Aggregative and Deliberative Contexts for Valuation: A Philosophical Contribution to Experimental Research in Environmental Decision Making	U of MD College Park	Mark H Sagoff, David A Crocker, Paul C Stern	Deborah Hanlon	\$158,043	January 1, 1997 - December 31, 1998	Highlighted
13	R825824	A Comparison of Direct Methods for Valuing Environmental Policies: A Case Study in New Hampshire's White Mountains	University of New Hampshire, University of Massachusetts, Appalachian Mountain Club	John M. Halstead, Thomas H. Stevens, L. Bruce Hill	Matthew Clark	\$159,071	October 1, 1997 - September 30, 1999	Highlighted
14	R828717	Environmental Risks to Children's Health: Parents' Risk Beliefs, Protective Behavior, and Willingness to Pay	University of Southern Mississippi, Hattiesburg, MS; University of Wyoming, Laramie, WY	Mark Dickie (mark.dickey@bus.edu), University of Southern Mississippi; Shelby Gerking, University of Wyoming	Matthew Clark	\$347,373	January 1, 2001 - December 31, 2003	Highlighted
15	R824671	Environmental Values and National Economic Accounts: A Theoretical Inquiry	University of Colorado, Boulder	Nicholas E. Flores	Matthew Clark	\$43,395	October 1995 - June 1997	Highlighted
16	R824698	Comparative Studies of Approaches to Eliciting Economic Values	University of California, San Diego	Richard T. Carson, Theodore Groves, and Mark J. Machina	Matthew Clark	\$265,000	October 1, 1995 - September 30, 1997	Highlighted
17	none	Optimal Experimental Design for Conjoint Analysis	U of Minnesota-Twin Cities	Barbara J Kanninen	Deborah Hanlon	\$82,563	September 1, 1996 - August 31, 1999	Highlighted

18	R824693	Social Psychology of Stated Preference	George Mason University (1), National Research Council (2)	(2)	Matthew Clark	none	October 1, 1995 - December 31, 1999	Highlighted
19	R824711	Mortality Risk Valuation And Stated Preference Methods: An Exploratory Study	Resources for the Future, University of Maryland and World Bank, University of Colorado, University of Michigan	Alan Krupnick, Maureen Cropper, Anna Alberini, and Robert Belli	Matthew Clark	\$114,822	October 1, 1995 - September 30, 1997	Highlighted
20	R824709	Developing Conjoint Stated Preference Methods for Valuation of Environmental Resources Within Their Ecological Context	University of Rhode Island	James J. Opaluch and Stephen K. Swallow	Matthew Clark	\$125,972	October 1995 - September 1997	Highlighted
21	R825311	Decision-Making under Uncertainty in the Conservation of Biological Diversity	Woods Hole Oceanographic Institution; Oregon State University; University of Cincinnati; University of Maine; University of Idaho	Andrew R. Solow, Stephen Polasky, Jeffrey Camm, Raymond O'Connor, Blair Csuti	Matthew Clark	\$271,463	October 15, 1996 - October 14, 1998	Highlighted
22	R824310	How People Respond to Contingent Valuation Questions	Duke University, Research Triangle Institute, University of Texas	John W. Payne, William H. Desvousges, David A. Schkade	Matthew Clark	\$238,510	October 1, 1995 - April 30, 1998	Highlighted
23	R824706	Eliciting Environmental Values A Constructivist Approach	Carnegie Mellon University	Baruch Fischhoff	Matthew Clark	\$99,987	none	Highlighted
24	R826609	The Role of Locational Equilibria and Collective Behavior in Measuring the Benefits of Air Pollution Policies	Duke University	V. Kerry Smith and Holger Sieg	Matthew Clark	\$199,948	September 1, 1998 - August 31, 2001	Highlighted

25	R824679	Preference Formation and Elicitation in Valuing Non-Market Goods	The University of New Mexico	David S. Brookshire, Robert Berrrens, Philip Ganderton, and Michael McKee of Economics, Hank Jenkins-Smith of the Institute for Public Policy, and Hillard Kaplan of Anthropology	Matthew Clark	\$184,998.00	October 1, 1995 - September 30, 1997	Highlighted
26	R829508	Measuring Economics Benefits for Amenity Consequences of Land Cover Changes	Center for Environmental and Resource Economic Policy, North Carolina State University, Raleigh, NC	V. Kerry Smith (vksmith@are1.cals.ncsu.edu), Raymond B. Palmquist, and Daniel J. Phaneuf	Matthew Clark	\$299,855	October 1, 2001 - September 30, 2004	Highlighted
27	R82-1335	Estimation of Health Effects and Values for Air Quality Improvements: the Cases of Taiwan and Los Angeles	Resources for the Future	Alan Krupnick	none	\$161,517	2 years	Highlighted
28	GF-95-00918	Development of an Incentive Compatible Mechanism to Assist in Environmental Remediation Site Prioritization and Allocation of Other Public Goods	University of Colorado	Katherine S. Carson	Virginia Broadway	\$25,928	9/1/95	Highlighted
29	R825826	Improving Air Quality Benefit Estimates from Hedonic Models	San Diego State University, University of Texas-Dallas	Mark Thayer, James C. Murdoch, Kurt Beron	Matthew Clark	\$124,931	October 1, 1997 - September 30, 1998	Highlighted
30	R829485	Not All Deaths are Created Equal: Understanding Individual Preferences for Reductions in Morbidity-Mortality Events	University of California at Los Angeles, Los Angeles, CA	J.R. DeShazo (deshazo@ucla.edu) and Trudy Ann Cameron	Matthew Clark	\$360,756	October 1, 2001 - September 30, 2003	Highlighted
31	R824688	Can Contingent Valuation Measure Passive-Use Values?	Cornell University; Princeton University; UCLA; University of Washington; University of Colorado	William Schulze, Gregory Poe, Daniel Kahneman, Trudy Cameron, Gardner Brown, and Gary McClelland	Matthew Clark	\$381,150	October 1, 1995 - September 30, 1997	Highlighted

32	none	Economic Effects of Multiple Stresses	Center for Ecological Health Research (Cal-Davis)	James Wilen	none	none	6/30/95 ending date	Highlighted
33	R829407	Environmental Management Systems: Informing Organizational Decisions	Carnegie Mellon University, Pittsburgh, PA	Lester Lave (ll01@andrew.cmu.edu), Chris Hendrickson	Susan Carrillo	\$323,265	November 1, 2001 ù October 31, 2003	Highlighted
34	R824766	Integrated Ecological Economic Modeling and Valuation of Watersheds	University of Maryland	Robert Costanza	Barbara Levinson	\$1,000,000	November 1, 1995 - November 1, 1998	Highlighted
35	R826619	Land and Management with Biological and Economic Objectives	Oregon State University	Claire Montgomery, Jeffrey L. Arthur, Stephen Polasky	Matthew Clark	\$131,089	October 1, 1998 - December 31, 2000	Highlighted
36	R826612	Market Valuation Models and Ecosystem Management in Making Legal and Policy Choices	American University (1), Stanford University (2), University of Maryland (3), Southern Illinois University (4), Indiana University (5)	James Salzman (1), Paul Ehrlich (2), Gretchen Daily (2), Herman Daly (3), Dennis King (3), J.B. Ruhl (4), Robert Fischman (5),	Matthew Clark	\$163,265	June 1, 1998 - December 31, 1999	Highlighted
37	R826616	Estimating the Cost of Carbon Sequestration in Global Forests	The Ohio State University	Brent Sohngen, Robert Mendelsohn, Roger Sedjo	Matthew Clark	\$87,401	September 1, 1998 - August 31, 2000	Highlighted
38	R826617	The Impact of Farmland Preservation Programs	University of Maryland	Nancy E. Bockstael and Cynthia J. Nickerson	Matthew Clark	\$80,860	October 1, 1998 - September 30, 1999	Highlighted
39	R827919	Business-led Environmental Management: Economic Incentives and Environmental Implications	University of Illinois at Urbana-Champaign	Madhu Khanna, Deborah Thurston	Susan Carrillo	\$241,516	December 15, 1999 ù December 15, 2001	Highlighted
40	R825996	Delineating Optimal Wetland Habitat Corridors for Inclusion in Migratory Flyways	Johns Hopkins University	Charles ReVelle, John Boland, Stephanie Snyder, Justin Williams	Matthew Clark	\$227,858	October 1, 1997 - September 30, 1999	Highlighted

41	R826615	An Examination of Utility Consistent Approaches to Modeling Corner Solutions in Recreation Demand	Iowa State University	Joseph A. Herriges, Catherine L. Kling, Daniel J. Phaneuf	Matthew Clark	\$134,759	September 1, 1998 - August 31, 2000	Highlighted
42	R828070	An Integrated GIS Framework for Water Reallocation and Decision Making in the Upper Rio Grande Basin	University of New Mexico	Olen Paul Matthews, David Brookshire, Michael Campana, Louis Scuderi, Brad Cullen, Kirk Gregory, Seth Snell, Janie Chermak, Kate Krause	Bill Stelz	\$409,977	March 1, 2000 - February 28, 2003	Highlighted
43	R826618	Environmental Labeling of Electricity: Label Design and Performance	University of Maine	Mario F. Teisl	Matthew Clark	\$72,573	September 1, 1998 - August 31, 2000	Highlighted
44	R829384	Economics of Conserving Ecosystem Integrity with Residential Development around Vernal Pools	University of Rhode Island, So. Kingston, RI	Stephen K. Swallow (swallow@uri.edu) and Peter Paton	Matthew Clark	\$200,017	January, 2002 - December, 2003	Highlighted
45	R827931	Understanding Observed Differences in Time-Preference Rates	Decision Sciences Research Institute	Robin Gregory, PI; Paul Slovic, Co-PI	Matthew Clark	\$228,463	November 30, 1999 - November 29, 2001	Highlighted
46	R829440	Environmental Management Systems: Do Formalized Management Systems Produce Superior Performance?	University of North Carolina at Chapel Hill, Chapel Hill, NC	Richard N. Andrews (pete_andrews@unc.edu), Deborah Amaral	Susan Carrillo	\$340,000	November 19, 2001 - November 18, 2003	Highlighted
47	R828716	Benefit Transfer Using Values from Adult-oriented Studies to Evaluate Children's Health Effects (Phase 1 - - Theory)	University of Wyoming, Laramie, WY	Thomas D. Crocker (tcrocker@uwyo.edu), Mark D. Agee, and Jason F. Shogren	Matthew Clark	\$103,495	December 1, 2000 - November 30, 2003	Highlighted

48	R825827	Promoting Proper Use of a Household Hazardous Waste Facility: A System Approach	University of Utah	Carol M. Werner	Matthew Clark	\$128,211	October 1, 1997 - December 31, 1998	Highlighted
49	R825825	A Decision Analysis Framework for Groundwater Remediation	Massachusetts Institute of Technology	Charles F. Harvey, Charles M. Harvey	Matthew Clark	\$205,000	October 1, 1997 - September 30, 2000	Highlighted
50	R825821	Cost-benefit and Uncertainty Analysis for Ambient Ozone Reductions: Development and Demonstration of an Integrated Model and Framework	Resources for the Future, Georgia Institute of Technology	Jhih-Shyang Shih, Alan J. Krupnick, Armistead G. Russell	Matthew Clark	\$300,000	October 1, 1997 - September 30, 2000	Highlighted
51	R827932	An Integrated Modeling Framework for Analyzing Wetlands Policies: Balancing Economic Factors and Ecosystems Services	University of California, Davis	Marca Weinberg; James Quinn	Matthew Clark	\$125,000	October 01, 1999 ù September 30, 2002	Highlighted
52	R827920	Continued Development of Methods for Characterizing and Ranking Health, Safety, and Environmental Risks	Carnegie Mellon University	Granger Morgan, Michael Dekay, Paul Fischbeck	Susan Carrillo	\$235,504	December 15, 1999 ù December 14, 2001	Highlighted
53	R825822	Establishing correlations between upland forest management practices and the economic consequences of stream turbidity in municipal supply watersheds	University of Oregon	David Hulse	Matthew Clark	\$320,000	October 1, 1997 - September 30, 2000	Highlighted

54	R827918	Voluntary Environmental Standards - Furthering Moral Suasion While Preventing Moral Hazard	Stern School of Business û New York University	Andrew King, Roy R. Radner, James Myles Shaver	Matthew Clark	\$236,390	November, 1999 û October, 2001	Highlighted
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